



*2022 Groundwater Monitoring Report  
Former Taylor Lumber Site  
Sheridan, Oregon*

Prepared for:  
Oregon Department of Environmental Quality  
Task Order No. 71-18-32

February 14, 2023  
ORE002-0309032-21002305 / Task 4



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A handwritten signature in blue ink that reads 'Carmen Owens'.

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## **1.0 Introduction**

This groundwater monitoring report describes the results of the 2022 groundwater monitoring activities at and in the vicinity of the former Taylor Lumber and Treating (TLT) Superfund Site located at 22125 SW Rock Creek Road in Yamhill County, Sheridan, Oregon (Site; Figure 1). This report was prepared for the Oregon Department of Environmental Quality (DEQ) under Task 4 of Task Order 71-18-32. The monitoring activities described in this report were conducted in general accordance with the *Groundwater Monitoring Work Plan* submitted to DEQ on March 23, 2022 (Work Plan; Apex Companies, LLC [Apex], 2022a). The Work Plan was based on the *Long-Term Groundwater Monitoring and Reporting Plan – Taylor Lumber and Treating Superfund Site* (LGMP) prepared by the U.S. Environmental Protection Agency (EPA) in March 2010 (EPA, 2010). The LGMP was fully incorporated into the Work Plan; therefore, there are no significant differences between the LGMP and the Work Plan.

### **1.1 Background**

The Site is a former wood treating facility that was operated by TLT from 1946 until 2001, when TLT filed for bankruptcy. Pacific Wood Preserving of Oregon (PWPO), now Stella-Jones, entered into a Prospective Purchaser Agreement (PPA) with the EPA and purchased the wood treatment portion of the facility. Stella-Jones began operations at the Site in June 2002 and treated wood using copper- and borate-based solutions. Stella-Jones resumed the use of pentachlorophenol (PCP) on June 7, 2011. Stella-Jones does not assume CERCLA liability but performs operation and maintenance (O&M) work for cleanup actions taken at the Site in accordance with the PPA..

A Record of Decision (ROD) for the Site was signed on September 30, 2005, which identifies PCP as the contaminant of concern (COC) in Site groundwater (EPA, 2005). In accordance with the ROD, contaminated soil has been removed from the Site and was transported to an off-site landfill. The contaminated soil was removed from specific portions of the Site, including: treated pole storage areas; the white pole storage area; railroad ditches; roadside ditches; adjacent gullies; and former soil storage cells. Post-excavation confirmation sampling results show that the soil cleanup goals were met in those areas.

Contaminated soil and groundwater remain within the treatment plant area (approximately 6.7 acres) at the Site, enclosed by a soil-bentonite barrier wall. The barrier wall was installed between the ground surface and the top of a siltstone aquitard, ranging from 14 to 20 feet below the ground surface (bgs). The barrier wall is keyed into the siltstone to minimize seepage along the bottom of the wall. A low-permeability asphalt cap has been placed over the entire area enclosed by the barrier wall, which impedes the infiltration of stormwater into the groundwater located within the barrier wall. Four groundwater extraction wells have been installed within the barrier wall to stimulate an inward hydraulic gradient and prevent water from rising above the cap (EPA, 2010).

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The March 2010 LGMP detailed field sampling, quality assurance/quality control procedures (QA/QC), sample management and handling, and documented activities that should be used for groundwater monitoring at the Site (EPA, 2010). A Work Plan was subsequently submitted to DEQ by their contractor, Ash Creek Associates (Ash Creek), on April 25, 2011. The Work Plan summarized a scope of work for two annual monitoring events in April 2011 and April 2012 (Ash Creek, 2011). The 2011 Work Plan was revised slightly in 2013 to incorporate modifications to the project scope of work that were made based on Site conditions encountered during the 2011 and 2012 groundwater monitoring events (Ash Creek, 2013). Annual groundwater monitoring and subsequent reporting were carried out by Ash Creek and Apex from 2011 through 2017. After 2017, the monitoring frequency was reduced to every five years. This report documents the first 5-year monitoring event completed in October 2022.

## 1.2 Scope of Work

The scope of work was completed in general accordance with the Work Plan (Apex, 2022a). The following activities comprise the scope of work, as summarized in the Work Plan:

- A Site reconnaissance event was conducted which included the following activities:
  - The location and condition of all monitoring wells and piezometers were confirmed;
  - Potential locations for two proposed staff gauges in the South Yamhill River were scouted;
  - The depth of each monitoring well was measured to determine which wells required redevelopment;
- A well redevelopment event was conducted following the reconnaissance event;
- Seven monitoring wells, one river elevation along Rock Creek, and two river elevation points along the Yamhill River were surveyed by a licensed surveyor;
- Water levels were measured in 27 wells prior to collecting groundwater samples for analysis;
- Groundwater samples were collected for PCP analysis from 25 monitoring wells (15 monitoring wells outside the barrier wall, 4 wells within the barrier wall, 3 wells south of highway 18B, 1 well east of Rock Creek Road, and 1 off-site residential well);
- Water quality parameters were measured in each sampled well to determine water stability during purging and to assure the representativeness of the samples; and
- For health and safety purposes, organic vapors were measured in the headspace of each well prior to monitoring and sampling activities.

These activities, as well as any deviations from the Work Plan, are discussed in detail within this report.

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## **2.0 Summary of Field Events**

Apex representatives conducted three separate field events at the Site, as follows:

- One Apex representative conducted a Site reconnaissance on April 28, 2022;
- One Apex representative conducted well redevelopment activities and oversaw well repair and survey activities on September 27, 2022; and
- Two Apex representatives conducted the annual groundwater monitoring event at the Site from October 12 through 21, 2022.

Work was conducted in general accordance with the Sampling and Analysis Plan (SAP) in Appendix B of the Work Plan (Apex, 2022a). As described in Section 1.2, field activities included a site reconnaissance, well redevelopment, well survey, well headspace monitoring, documentation of well conditions, measurement of water level in extraction and monitoring wells, and collection of groundwater samples. Table 1 lists the groundwater monitoring wells and the residential well that were gauged and sampled as part of the Site monitoring program. The locations of the monitoring wells, extraction wells, and the residential well included in the monitoring program are shown on Figure 2.

### **2.1 Site Reconnaissance**

Apex conducted the pre-sampling Site reconnaissance on April 28 and 29, 2022. The purpose of the reconnaissance was to identify potential locations for two proposed stream gauges in the South Yamhill River and to determine the condition of the existing monitoring wells and piezometers at the Site. The results of the Site reconnaissance were documented in a memorandum dated June 23, 2022 (Apex, 2022b).

During the reconnaissance, Apex identified two locations along the South Yamhill River for potential stream gauge installations. Both locations were on the north bank of the river. At both locations, the sediments were very soft and the bank was heavily vegetated, which would make staff gauge installation difficult. Furthermore, Apex noted evidence that the river has the potential to swell substantially during high flows. Large logs and debris were observed to be lodged in the trees approximately 15 feet above the river elevation at the time of the reconnaissance and appeared to have been deposited by the river at high flow. Based on these observations, this stretch of the South Yamhill River has the potential to rise at least this much during high flow periods, which makes it impractical to install gauges along this portion of the river. Therefore, it was determined that it would be advantageous to simply survey the water elevation contemporaneously with groundwater monitoring events to evaluate groundwater-surface water interaction.

All monitoring wells and piezometers that were planned for reconnaissance were located and gauged. In general, all of the monitoring wells and piezometers had hard bottoms when the bottom of the well was sounded with a water level meter. Of the 22 wells, 8 wells had bottom depths that measured shallower than were previously documented, with the largest change being 0.47 feet. Notably, nine of the wells measured

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had bottom depths that were over a foot (and up to 3.2 feet) deeper than previously documented. These discrepancies may be related to the previous depth being measured from ground surface and current depth being measured from top of casing. This would result in a deeper depth measured in wells with stand-pipe well monuments, and a shallower depth measured in wells with flush-mount well monuments. Many of the wells had structural deficiencies at or near the surface that were mostly associated with the flush-mount monuments. These deficiencies generally included missing or damaged bolts and gaskets, a bent well casing, silted well monuments, buried well monuments, and seized locks. None of these deficiencies would affect the well screen or well depth.

## 2.2 Well Repair, Redevelopment, and Survey Activities

Based on the results of the reconnaissance inspection of the monitoring wells, Western States Soil Conservation, Inc. conducted well repair activities on September 27, 2022. Repairs included repairing gaskets, replacing missing or stripped bolts, replacing well caps, removing silt from monuments, and installing raised monuments to address wells that have become buried by vehicular traffic/gravel movement. A summary of the completed well repairs is provided in the table below.

Well Name	Well Repairs Made
MW-6S	Replaced broken bolts, replaced gasket
MW-6D	Replaced missing bolts, replaced gasket
MW-12S	Replaced broken bolts, replaced gasket
MW-13S	Replaced broken bolts, replaced gasket, replaced well cap
MW-16S	Replaced broken bolts, replaced gasket, removed silt from well monument
MW-17S	Removed soil/debris above well, replaced broken bolts, installed raised monument
MW-103S	Removed soil/debris above well, replaced broken bolts, installed raised monument
MW-102S	Replaced broken bolts, replaced gasket, removed silt from well monument
MW-104S	Replaced missing bolts

Northstar Surveying (Northstar) surveyed the elevation of seven monitoring wells (MW-9S, MW-13S, MW-19S, MW-20S, MW-24S, MW-25S, MW-102S) following repairs. Surveyed elevations for the wells were generally within 0.2 feet of the previous elevations for each location, with the exception of wells MW-9S and MW-102S, which were 0.32 and 0.38 feet higher than previously measured, respectively. A comparison of groundwater elevation contour maps based on 2017 and 2022 data indicates that these discrepancies in survey elevations did not impact the interpretation of groundwater flow.

Northstar also surveyed one river elevation point along Rock Creek and two river elevation points along the Yamhill River. Northstar surveyed the elevation at the intersection of the surface water and the shoreline three times at each of the three locations and determined and recorded the median elevation to ensure as

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much accuracy as possible with the moving water. The survey information for the wells and the surface water bodies is included in Table 2.

Six wells were redeveloped based on the results of the Site reconnaissance (MW-6S, MW-6D, MW-12S, MW-16S, MW-25S and MW-102S). Well development was conducted in accordance with the *Groundwater Monitoring Well Drilling, Construction, and Decommissioning* guidance document (DEQ, 1992) and the procedures outlined in the SAP in Appendix B of the Work Plan (Apex, 2022a). The well development was conducted using a submersible pump. The pump was moved throughout the water column during development and no surge block was used due to the silty nature of the surrounding formation.

Development was considered complete when a minimum of five to ten well bore volumes was removed from the well, the water was geochemically stable, and it was as free of sediment as practicable. Water produced from the wells was considered geochemically stable when field parameters (pH, temperature, specific conductance, oxidation-reduction potential, and dissolved oxygen) remained within five percent of the previous measurement for at least three successive borehole volumes. Water produced from the wells was considered free of sediment when the water produced was visibly clear. All water produced during well redevelopment activities was containerized and handled as described in Section 2.5 below.

## 2.3 Groundwater Elevation Measurements

Groundwater elevation measurements were collected in accordance with the EPA Work Plan (EPA, 2010). Wells in which water levels were measured are listed in Table 2. The well lids and caps were opened for at least 5 minutes before taking measurements so that the water levels in each well had adequate time to equilibrate with potential changes in air pressure. Water level measurements were collected with an electronic water level probe and recorded on the appropriate field data sheet with an accuracy of  $\pm 0.01$  foot. For health and safety purposes, the presence of organic vapors was measured in each monitoring well/piezometer headspace prior to conducting gauging and sampling activities.

Organic vapor measurements were collected using a photoionization detector (PID) with a 10.6 electron-volt (eV) lamp. PID measurements were generally below 10 parts per million (ppm) total volatile organic compounds (VOCs), except for in monitoring wells MW-101S (432 ppm), MW-103S (1384 ppm), and MW-104S (122.6 ppm), and in extraction wells PW-02 (26.1) and PW-03 (851 ppm). Free light non-aqueous phase liquid (LNAPL) was noted in extraction well PW-03, approximately 1.8 feet in thickness, during gauging. The Stella-Jones plant manager was notified of this occurrence and indicated they would remove the product with a bailer and notify DEQ. The source of the product is unknown.

## 2.4 Groundwater Sampling

Groundwater samples were collected from the wells listed in Table 1 via low-flow sampling methods. Additional details are provided below and within the SAP appendix of the submitted Work Plan (Apex, 2022a).



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**Well Purging.** Groundwater was purged before sampling using dedicated tubing and a peristaltic pump. Per the EPA Work Plan (EPA, 2010), a minimum of three well casing volumes was removed prior to sampling. Field parameters, including temperature, pH, dissolved oxygen, oxidation-reduction potential, specific conductivity, and turbidity were measured during the purging process using a flow-through cell.

The well purging scope for monitoring well MW-12S was modified from the procedure outlined in the SAP (Apex, 2022a) and the EPA Work Plan (EPA, 2010). Monitoring well MW-12S is constructed of 6-inch-diameter polyvinyl chloride (PVC) casing and is approximately 12 feet deep. At the low-flow sampling rates being used, it would take approximately 4.5 hours to purge three well volumes prior to sampling. In order to collect a groundwater sample representative of the aquifer in an efficient timeframe, field parameters were measured every 5 minutes while purging the well. Once pH and temperature conditions reached values similar to results for the other wells at the Site and the remaining field parameters were stabilized, the well was considered adequately purged and ready for sampling.

**Well Sampling.** Groundwater sampling was conducted in accordance with Apex's standard operating procedures (SOPs) provided within the Work Plan SAP (Apex, 2022a). Where the SOPs differ from the EPA's Work Plan, procedures were deferred to those outlined in the EPA Work Plan and were denoted accordingly in the SAP. For all monitoring wells, the end of the sample tubing was placed near the bottom of the well screen to collect the sample. In addition, based on discussions with DEQ, four monitoring wells had additional sample volume collected near the top of the well screen to determine if placement of the end of the tubing within the well screen produces significantly different concentration results. Based on historical detected concentrations, monitoring well MW-25S (outside the barrier wall) and monitoring wells MW-101S and MW-104S (inside the barrier wall) were sampled from both the top and bottom of the well screen for concentration comparison. One presumed clean monitoring well was also sampled at both the top and bottom of the well screen for concentration comparison. Based on historical sampling events, well MW-6D was selected for this comparison, as PCP has not been detected going back to 2011.

**Purging and Sampling of Residential Well.** The location of off-site residential well RW-01 is depicted on Figure 2. Well RW-01 is located to the west of the Site and was accessed from the faucet at the pump house that is facing Highway 18.

The water tap was opened and allowed to run for approximately 10 minutes to clear the system (including any pressure equalizing tank if present) of residual water in the piping. Following the system purge, a sample was collected from the tap for measurement of field parameters. The tap was allowed to run for another three minutes before collecting another sample for the measurement of field parameters. This procedure was repeated until field parameters stabilized to within 10 percent of the previous measurements for three successive measurements. Following completion of purging procedures as described above, the groundwater sample was collected directly from the tap.

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Procedures for labeling and storing the samples were summarized in the SAP (Apex, 2022a) and no deviations from the SAP were made.

## **2.5 Handling of Investigation-Derived Waste**

Investigation-derived waste (IDW) consisted of purge water and decontamination water. No significant sediment was produced during well development or sampling activities that required settling and disposal. IDW was temporarily placed in buckets or drums and was disposed of in the drain located to the north of the stormwater treatment system (as depicted on Figure 2). This drain enters the existing on-site stormwater treatment system. Buckets were emptied between each well nest or as soon as they were approximately two-thirds full to avoid spillage. Disposable items such as gloves, paper towels, and tubing were placed in plastic bags after use and deposited in trash receptacles for disposal.

## **3.0 Monitoring Results**

Groundwater samples collected from the monitoring wells and residential water well during the monitoring event were analyzed for PCP by low level EPA Method 8270. Additional information on the analytical program, including sample handling procedures, required analytical reporting limits, preservation requirements, and sample hold times, were summarized in the SAP (Apex, 2022a).

### **3.1 Groundwater and Surface Water Elevation Results**

A groundwater elevation contour map is provided on Figure 3. Surveyed surface water elevations are also included on the map, but not contoured with groundwater. Surface water elevations were documented contemporaneously with groundwater monitoring/well gauging. Groundwater flow interpreted from the contours constructed from the October 2022 elevation data is to the south-southeast (towards the South Yamhill River) and is consistent with historical documentation of groundwater flow direction. The surface water elevations indicate that Rock Creek had the highest surface water elevation at 185.86 feet, followed by the western point surveyed on the Yamhill River at 182.87 feet, and finally the eastern point surveyed along the Yamhill River at 181.97 feet. All recorded elevations confirm that groundwater flows towards and feeds into the Yamhill River. Other than the lower groundwater elevations observed in the pumping wells (which were off when gauging was conducted), no significant differences in elevations were noted between wells inside and outside of the barrier wall.

Apex reviewed well construction details prior to completing the groundwater elevation contour map for the Site. In reviewing water table elevations observed with respect to screened intervals in each well, Apex noted that for most of the wells, the water table did not intersect the screened interval and was often higher than the top of the screen by an average of 2.9 feet. Only wells MW-9S, MW-10S, MW-19S and MW-20S are

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constructed such that the water table intersects the screen. Removing all but these wells from contouring did not significantly change the overall groundwater flow pattern during this monitoring event, but caution should be taken in the future to evaluate groundwater elevations and flow patterns in this context.

### **3.2 Groundwater Analysis and Results**

The groundwater samples were submitted to Pace Analytical of Mount Juliet, Tennessee for laboratory analysis of PCP by EPA Method 8270 (PCP only). A quality assurance/quality control (QA/QC) review of the data is presented in Appendix B. The results of the data quality review indicate that the data are of acceptable quality and are suitable for their intended purpose. The October 2022 groundwater analytical results, as well as historical analytical results, are presented in Table 3. PCP concentrations in the collected samples ranged from non-detect (in 13 samples) to 118 micrograms per liter ( $\mu\text{g/L}$ ; MW-101S at the bottom of the well screen). Analytical results from October 2022 are summarized on Figure 4.

## **4.0 Data Evaluation and Conclusions**

Concentration trend graphs for PCP in groundwater from wells where PCP was detected over  $0.1 \mu\text{g/L}$  in samples collected during the 2022 groundwater monitoring event (MW-1S, MW-6S, MW-10S, MW-15S, MW-16S, MW-19S, MW-25S, MW-101S, MW-103S, and PZ-105,) are provided in Appendix A. The trend plots for all wells except for monitoring wells MW-1S and MW-16S show decreasing concentration trends. Wells upgradient and downgradient of these locations do not exhibit increasing PCP concentration trends. However, the concentrations detected in both wells are the highest that have been detected since 2002 (MW-16S) and 2003 (MW-1S). Additional data is needed from monitoring wells MW-1S and MW-16S to evaluate long-term trends with respect to the efficacy of the remedy or whether site conditions have changed.

Monitoring well MW-11S was used to evaluate whether PCP in groundwater was migrating to the east under Rock Creek Road. Concentrations in MW-11S have historically varied between non-detect and  $0.87 \mu\text{g/L}$  in April 2011, but have consistently been non-detect since April 2012. Therefore, the data continue to show that migration of PCP east of Rock Creek Road has not occurred in this area.

Groundwater samples were collected from monitoring wells located south of Highway 18B (MW-9S, MW-10S, and MW-24S) during the October 2022 monitoring event. PCP was detected at a concentration of  $0.069 \mu\text{g/L}$  in the sample collected from monitoring well MW-9S. PCP has not previously been detected in samples collected from monitoring well MW-9S; however, the reporting limit for PCP for this monitoring event is significantly lower than that of previous events. Therefore, the detection of PCP in MW-9S does not represent an increase in concentration in the well. PCP was detected at a concentration of  $0.16 \mu\text{g/L}$  in the groundwater sample collected from monitoring well MW-10S, where it has not been detected since 2003. Like MW-9S, the previous reporting limits were higher than this detection ( $0.16 \mu\text{g/L}$  detected, vs previous reporting limits over  $0.3 \mu\text{g/L}$ ). Therefore, this detection/concentration does not indicate an increasing concentration trend at this

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location. PCP was not detected in the groundwater sample collected from monitoring well MW-24S during the October 2022 monitoring event which is consistent with past monitoring events. The data confirm that migration to the south towards the South Yamhill River is not occurring.

PCP has not been detected in water well RW-01 since the well was initially sampled in 1999.

As noted above, the method detection limit for PCP was significantly lower during this monitoring event compared to previous events. Concentrations of PCP were above the method reporting limit for seven wells after having consistent years of non-detect results. Detected concentrations in four of these wells (MW-12S, MW-19S, MW-9S, and MW-10S) are lower than the 2017 detection limits and do not represent an increase in concentrations. Additionally, the other three wells with recent detections (MW-1S, MW-6S, PZ-105) are only slightly above the method reporting limit.

A sample was collected from the top and bottom of the screen in four wells (MW-25S, MW-101S, MW-104S, and MW-6D). The results were below detection limits in MW-6D and MW-104S for both the top and bottom sample. The concentration of the sample collected at the top of the well screen was less than that of the sample collected at the bottom for both wells with concentrations of PCP above the method detection limit (MW-25S and MW-101S). PCP was detected at a concentration of 32.6 µg/L and 106 µg/L in the samples collected from the top and bottom of the screen in monitoring well MW-25S, respectively. PCP was detected at a concentration of 97 µg/L and 118 µg/L in the samples collected from the top and bottom of the screen in monitoring well MW-101S, respectively. These data indicate that the concentrations detected can vary somewhat significantly between samples collected from the top and bottom of the screen in the same well, and consistently demonstrate relatively higher concentrations at the deeper depths.

The monitoring well with the relatively highest PCP concentration (MW-101S) is within the barrier wall in the treatment area and has shown a significant decrease in PCP concentration since the remedy was implemented in 2000, decreasing from a historic high of 3,476 µg/L in November 2002 to 118 µg/L in 2022. The well with the next highest PCP concentration (MW-25S) has shown an overall decrease in concentration from a historic high of 424 µg/L in 2005. Considering only the PCP concentration detected in the groundwater sample collected from the bottom of the screen in this well (32.6 µg/L), the decreasing trend would appear to continue. However, the PCP concentration in the groundwater sample collected from the top of the screen (106 µg/L) indicates an increasing trend. Additional data is required to evaluate PCP concentration trends at this location.

Monitoring well MW-16S had a higher concentration as compared to recent monitoring events. The concentration of 24.3 µg/L is the second highest concentration recorded in this well. Additional data is required to evaluate PCP concentration trends at this location.

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Based on the groundwater monitoring conducted in October 2022, additional groundwater monitoring is needed to evaluate the effectiveness of the remedy, particularly for monitoring wells MW-1S, MW-16S, and MW-25S. In addition, Apex recommends the consideration of one or more additional monitoring wells to be installed east and southeast of monitoring well MW-25S to evaluate whether off-site migration of PCP-contaminated groundwater has occurred in that area. Further evaluation of the potential sources of the increased PCP concentrations may also be warranted if concentrations in these wells persist.

## **5.0 References**

Apex Companies, LLC (Apex), 2022a. *Groundwater Monitoring Work Plan, Former Taylor Lumber Site, Sheridan, Oregon*. March 23, 2022.

Apex, 2022b. *Site Reconnaissance, Former Taylor Lumber, Sheridan, Oregon*. June 23, 2022.

Ash Creek Associates (Ash Creek), 2011. *Groundwater Monitoring Work Plan, Former Taylor Lumber Site, Sheridan, Oregon*. April 22, 2011.

Ash Creek, 2013. *Groundwater Monitoring Work Plan, Former Taylor Lumber Site, Sheridan, Oregon*. April 3, 2013.

Oregon Department of Environmental Quality (DEQ), 1992. *Groundwater Monitoring Well Drilling, Construction, and Decommissioning*. August 24, 1992.

U.S. Environmental Protection Agency (EPA), 2005. *Final Record of Decision, Taylor Lumber and Treating Superfund Site, Sheridan, Oregon*. September 30, 2005.

EPA, 2010. *Long-term Groundwater Monitoring and Reporting Plan, Taylor Lumber and Treating Superfund Site*. March 2010.

**Table 1**  
**Groundwater Monitoring Program**  
**Taylor Lumber and Treating**

Well Name	Water Level Measurements	Wells Sampled
<b>Outside Barrier Wall</b>		
MW-1S	X	X
MW-6S	X	X
MW-6D	X	X
MW-12S	X	X
MW-13S	X	X
MW-14S		X
MW-15S	X	X
MW-16S	X	X
MW-17S		X
MW-19S	X	X
MW-20S	X	X
MW-25S	X	X
MW-103S	X	X
PZ-101	X	X
PZ-102	X	X
PZ-105	X	X
<b>South of Highway 18B</b>		
MW-9S	X	X
MW-10S	X	X
MW-24S	X	X
<b>East of Rock Creek Road</b>		
MW-11S	X	X
<b>Residences</b>		
RW-01		X
<b>Extraction Wells Inside Barrier Wall</b>		
PW-1	X	
PW-02	X	
PW-03	X	
PW-04	X	

Table 2  
Groundwater Elevations  
Taylor Lumber and Treating

Well Number/ Top of Casing Elevation	Date of Measurement	Depth to Water (feet below top of casing)	Groundwater Elevation (feet)
<b>Outside Barrier Wall</b>			
MW-1S 207.41	10/12/2022	5.76	201.65
MW-6S 204.39	10/12/2022	4.06	200.33
MW-6D 204.04	10/12/2022	4.41	199.63
MW-12S 204.49	10/12/2022	4.41	200.08
MW-13S 205.04 (204.92)	10/12/2022	4.90	200.14
MW-14S 205.82	10/12/2022	5.67	200.15
MW-15S 204.68	10/12/2022	5.22	199.46
MW-16S 205.19	10/12/2022	4.94	200.25
MW-19S 210.59 (210.44)	10/12/2022	8.84	201.75
MW-20S 209.04 (208.87)	10/12/2022	9.13	199.91
MW-25S 208.71 (208.74)	10/12/2022	8.10	200.61
MW-101S 206.98	10/12/2022	5.84	201.14
MW-102S 207.87 (207.49)	10/12/2022	6.66	201.21
MW-103S 207.62	10/12/2022	6.75	200.87
MW-104S 205.22	10/12/2022	5.47	199.75
PZ-101 208.48	10/12/2022	6.22	202.26
PZ-102 204.02	10/12/2022	5.73	198.29
PZ-105 205.94	10/12/2022	6.65	199.29
PZ-116 211.98	10/12/2022	7.54	204.44
<b>South of Highway 18B</b>			
MW-9S 204.36 (204.04)	10/12/2022	9.21	195.15
MW-10S 203.17	10/12/2022	10.61	192.56
MW-24S 205.43 (205.49)	10/12/2022	14.02	191.41
<b>East of Rock Creek Road</b>			
MW-11S 207.27	10/12/2022	7.03	200.24

Please refer to notes at end of table.

Table 2  
Groundwater Elevations  
Taylor Lumber and Treating

Well Number/ Top of Casing Elevation	Date of Measurement	Depth to Water (feet below top of casing)	Groundwater Elevation (feet)
<b>Extraction Wells Inside Barrier Wall</b>			
PW-1 203.93	10/12/2022	5.37	198.56
PW-02 204.96	10/12/2022	8.55	196.41
PW-03 206.3	10/12/2022	9.68	196.62
PW-04 206.98	10/12/2022	10.99	195.99
<b>South Yamhill River Average Water Height</b>			
Rock Creek Water Line	9/27/2022	--	185.86
Westerly tie of Yamhill River	9/27/2022	--	182.87
Easterly tie of Yamhill River	9/27/2022	--	181.97

**Notes**

1. Top of casing elevations in parentheses are from initial survey of wells. These wells were resurveyed on October 1



Table 3  
Groundwater Analytical Results  
Taylor Lumber and Treating

Well ID	Date of Measurement	Pentachlorophenol (µg/L)
Outside Barrier Wall		
MW-1S	May-99	--
	Feb-02	< 25
	May-02	<b>6.9</b>
	Aug-02	<b>14</b>
	Nov-02	<b>14</b>
	Feb-03	<b>6 J</b>
	May-03	<b>3.3</b>
	4/27/2011	< 0.33
	4/10/2012	< 0.41 J
	4/9/2013	< 0.31
	4/15/2014	< 0.31
	4/7/2015	< 0.31
	4/13/2016	< 0.313
	4/6/2017	< 0.313
	10/21/2022	<b>0.7 J+</b>
MW-6S	May-99	< 25
	Feb-02	<b>0.82</b>
	May-02	<b>0.88</b>
	Aug-02	<b>1.0</b>
	Nov-02	<b>0.88 J</b>
	Feb-03	--
	May-03	--
	4/26/2011	< 0.33
	4/26/2011 DUP	< 0.33
	4/10/2012	< 0.41
	4/9/2013	< 0.31
	4/15/2014	< 0.31
	4/7/2015	< 0.31
	4/13/2016	< 0.313
	4/6/2017	< 0.313
	10/12/2022	<b>0.34 J-</b>
MW-6D	4/26/2011	< 0.33
	4/10/2012	< 0.41
	4/10/2012 DUP	< 0.41
	4/9/2013	< 0.31
	4/9/2013 DUP	< 0.31
	4/15/2014	< 0.31
	4/15/2014 DUP	< 0.31
	4/6/2015	< 0.31
	4/6/2015 DUP	< 0.31
	4/13/2016	< 0.313
	4/13/2016 DUP	< 0.313
	4/6/2017	< 0.313
	10/12/2022 Top	< 0.040
	10/12/2022 Bottom	< 0.040 J-

Please refer to notes at end of table.

Table 3  
Groundwater Analytical Results  
Taylor Lumber and Treating

Well ID	Date of Measurement	Pentachlorophenol (µg/L)
MW-12S	May-99	--
	Feb-02	0.32
	May-02	0.30
	Aug-02	0.45
	Nov-02	0.22 J
	Feb-03	--
	May-03	--
	4/26/2011	< 0.33
	4/10/2012	< 0.41
	4/9/2013	< 0.31
	4/15/2014	< 0.31
	4/7/2015	< 0.31
	4/13/2016	< 0.313
	4/6/2017	< 0.313
	10/13/2022	0.047 J-
MW-13S	May-99	--
	Feb-02	0.25
	May-02	0.25
	Aug-02	2.0
	Nov-02	2.6 J J
	Feb-03	< 0.32
	May-03	< 0.56
	4/26/2011	< 0.33
	4/10/2012	< 0.41
	4/9/2013	< 0.31
	4/15/2014	< 0.31 J
	4/6/2015	< 0.31
	4/13/2016	< 0.313 J
	4/6/2017	< 0.313
	10/14/2022	< 0.040
MW-14S	May-99	--
	May-00	--
	Feb-02	21
	May-02	180
	Sep-02	390
	Nov-02	--
	Feb-03	--
	May-03	--
	4/26/2011	--
	4/10/2012	--
	4/9/2013	--
	4/15/2014	--
	4/6/2015	--
	4/13/2016	--
	4/6/2017	--
	10/14/2022	< 1.0

Please refer to notes at end of table.

Table 3  
Groundwater Analytical Results  
Taylor Lumber and Treating

Well ID	Date of Measurement	Pentachlorophenol (µg/L)
MW-15S	May-99	--
	Feb-02	220
	May-02	220
	Aug-02	250
	Nov-02	210
	Feb-03	130
	May-03	190
	4/26/2011	12
	4/10/2012	15 J
	4/9/2013	18
	4/15/2014	13
	4/7/2015	12
	4/12/2016	4.19 J
	4/5/2017	2.86
	10/13/2022	0.46 J-
MW-16S	May-99	--
	Feb-02	10
	May-02	15
	Aug-02	28
	Nov-02	21.0 J
	Feb-03	11
	May-03	11
	4/26/2011	11
	4/26/2011 DUP	11
	4/10/2012	5.8
	4/10/2012 DUP	8.7
	4/9/2013	8.0
	4/9/2013 DUP	9.3
	4/15/2014	5.0
	4/15/2014 DUP	5.4
	4/7/2015	5.3
	4/7/2015 DUP	4.6
	4/13/2016	3.20 J
	4/13/2016 DUP	3.07 J
	4/6/2017	3.58
	4/6/2017	3.20
	10/13/2022	24.3
MW-17S	May-99	--
	Feb-02	--
	May-02	--
	Aug-02	0.094
	Nov-02	< 0.32 J
	Feb-03	< 0.32
	May-03	< 0.047
	4/27/2011	--
	4/11/2012	--
	4/10/2013	--
	4/16/2014	--
	4/8/2015	--
	4/12/2016	--
	4/5/2017	--
	10/14/2022	< 0.040

Please refer to notes at end of table.

Table 3  
Groundwater Analytical Results  
Taylor Lumber and Treating

Well ID	Date of Measurement	Pentachlorophenol (µg/L)
MW-19S	May-99	--
	Feb-02	--
	May-02	--
	Aug-02	<b>0.067</b>
	Nov-02	< 0.32
	Feb-03	< 0.32
	May-03	<b>0.061</b>
	4/27/2011	< 0.33
	4/11/2012	< 0.41
	4/10/2013	< 0.31
	4/16/2014	< 0.31
	4/8/2015	< 0.31
	4/12/2016	< 0.313 J
	4/5/2017	< 0.313
	10/14/2022	<b>0.13</b>
MW-20S	May-99	--
	Feb-02	--
	May-02	--
	Aug-02	<b>0.013 J</b>
	Nov-02	< 0.32
	Feb-03	< 0.32
	May-03	<b>0.027 J</b>
	4/27/2011	< 0.33
	4/11/2012	< 0.41
	4/10/2013	< 0.31
	4/16/2014	< 0.31 J
	4/8/2015	< 0.31
	4/12/2016	< 0.313
	4/5/2017	< 0.313
	10/13/2022	< 0.040
MW-25S	12/19/2005	<b>424</b>
	12/19/2005 DUP	<b>396</b>
	4/27/2011	<b>230</b>
	4/11/2012	<b>200</b>
	4/10/2013	<b>240</b>
	4/15/2014	<b>290</b>
	4/7/2015	<b>210</b>
	4/13/2016	<b>158</b>
	4/6/2017	<b>191 D</b>
	4/6/2017 DUP	<b>49.8 D</b>
	10/12/2022 Top	<b>32.6 J-</b>
	10/12/2022 Bottom	<b>106 J-</b>

Please refer to notes at end of table.

Table 3  
Groundwater Analytical Results  
Taylor Lumber and Treating

Well ID	Date of Measurement	Pentachlorophenol (µg/L)
MW-101S	May-99	--
	May-00	950
	Feb-02	1,500
	May-02	2,300
	Sep-02	2,200
	Nov-02	3,476
	May-03	940
	4/27/2011	--
	4/11/2012	--
	4/10/2013	--
	4/15/2014	--
	4/7/2015	--
	4/13/2016	--
	4/6/2017	--
	10/14/2022 Top	97.0
	10/14/2022 Bottom	118
MW-102S	May-99	--
	May-00	< 0.04
	Feb-02	--
	May-02	--
	Sep-02	< 5
	Nov-02	--
	Feb-03	--
	May-03	--
	4/27/2011	--
	4/11/2012	--
	4/10/2013	--
	4/15/2014	--
	4/7/2015	--
	4/13/2016	--
	4/6/2017	--
	10/13/2022	< 0.040
MW-103S	May-99	5.6
	Feb-02	6.4
	May-02	7.0
	Aug-02	12
	Nov-02	4.7 J
	Feb-03	5.0
	May-03	20
	4/27/2011	1.6
	4/11/2012	1.4
	4/10/2013	2.3
	4/16/2014	0.56 J
	4/7/2015	0.92 J
	4/12/2016	1.36 J
	4/5/2017	0.81 J
	10/13/2022	0.36

Please refer to notes at end of table.

Table 3  
Groundwater Analytical Results  
Taylor Lumber and Treating

Well ID	Date of Measurement	Pentachlorophenol (µg/L)
MW-104S	May-00	500
	Feb-02	350
	May-02	590
	Sep-02	1,300
	Nov-02	600
	May-03	1,700
	4/27/2011	--
	4/11/2012	--
	4/10/2013	--
	4/16/2014	--
	4/7/2015	--
	4/12/2016	--
	4/5/2017	--
	10/13/2022 Top	< 0.40
	10/13/2022 Bottom	< 0.80
PZ-101	May-99	< 25
	Feb-02	0.14
	May-02	0.15
	Aug-02	0.14
	Nov-02	1.1 J
	Feb-03	--
	May-03	0.067
	4/27/2011	< 0.33
	4/11/2012	< 0.41
	4/10/2013	< 0.31 J
	4/16/2014	< 0.31
	4/8/2015	< 0.31
	4/12/2016	< 0.313
	4/5/2017	< 0.313
	10/14/2022	< 0.040
PZ-102	May-99	< 25
	Feb-02	0.37
	May-02	0.30
	Aug-02	0.34
	Nov-02	0.13 J
	Feb-03	0.23 J
	May-03	< 0.32
	4/27/2011	< 0.33
	4/10/2012	< 0.41
	4/9/2013	< 0.31
	4/15/2014	< 0.31
	4/8/2015	< 0.31
	4/13/2016	< 0.313
	4/5/2017	< 0.313
	10/13/2022	< 0.040

Please refer to notes at end of table.

Table 3  
Groundwater Analytical Results  
Taylor Lumber and Treating

Well ID	Date of Measurement	Pentachlorophenol (µg/L)
PZ-105	May-99	82 J
	Feb-02	3.5
	May-02	8.2
	Aug-02	17
	Nov-02	4.0 J
	Feb-03	0.77
	May-03	2.6
	4/26/2011	< 0.33
	4/10/2012	< 0.41
	4/9/2013	1.6
	4/16/2014	< 0.31
	4/8/2015	< 0.31
	4/12/2016	< 0.313
	4/4/2017	< 0.313
	10/13/2022	0.37
PZ-116	May-99	< 25
	Feb-02	< 0.047
	May-02	< 0.053
	Aug-02	< 0.048
	Nov-02	1.2 J
	May-03	< 0.046
	4/26/2011	--
	4/10/2012	--
	4/9/2013	--
	4/16/2014	--
	4/8/2015	--
	4/12/2016	--
	4/4/2017	--
	10/14/2022	0.048
South of Highway 18B		
MW-9S	May-99	< 24
	Feb-02	< 0.047
	May-02	< 0.049
	Aug-02	< 0.023
	Nov-02	< 0.32
	Feb-03	< 0.32
	May-03	< 0.046
	4/26/2011	< 0.33
	4/11/2012	< 0.41
	4/10/2013	< 0.31
	4/16/2014	< 0.31
	4/8/2015	< 0.31
	4/14/2016	< 0.313
	4/4/2017	< 0.313
	10/14/2022	0.069

Please refer to notes at end of table.

Table 3  
Groundwater Analytical Results  
Taylor Lumber and Treating

Well ID	Date of Measurement	Pentachlorophenol (µg/L)
MW-10S	May-99	< 26
	Feb-02	<b>0.099</b>
	May-02	<b>0.13</b>
	Aug-02	<b>0.38</b>
	Nov-02	<b>0.18 J</b>
	Feb-03	< 0.32
	May-03	<b>0.13</b>
	4/27/2011	< 0.33
	4/11/2012	< 0.41
	4/10/2013	< 0.31
	4/16/2014	< 0.31
	4/8/2015	< 0.31
	4/14/2016	< 0.313
	4/5/2017	< 0.313
	10/14/2022	<b>0.16</b>
MW-24S	4/27/2011	< 0.33
	4/11/2012	< 0.41 J
	4/10/2013	< 0.31 J
	4/16/2014	< 0.31
	4/8/2015	< 0.31
	4/14/2016	< 0.313
	4/5/2017	< 0.313
	10/14/2022	< 0.040
<b>East of Rock Creek Road</b>		
MW-11S	May-99	< 25
	Feb-02	<b>0.18</b>
	May-02	<b>0.18</b>
	Aug-02	<b>0.36</b>
	Nov-02	< 0.32
	Feb-03	< 0.32
	May-03	<b>0.18</b>
	4/27/2011	<b>0.87 J</b>
	4/11/2012	< 0.41
	4/10/2013	< 0.31 J
	4/15/2014	< 0.31
	4/7/2015	< 0.31
	4/13/2016	< 0.313
	4/6/2017	< 0.313
	10/14/2022	< 0.040

Please refer to notes at end of table.

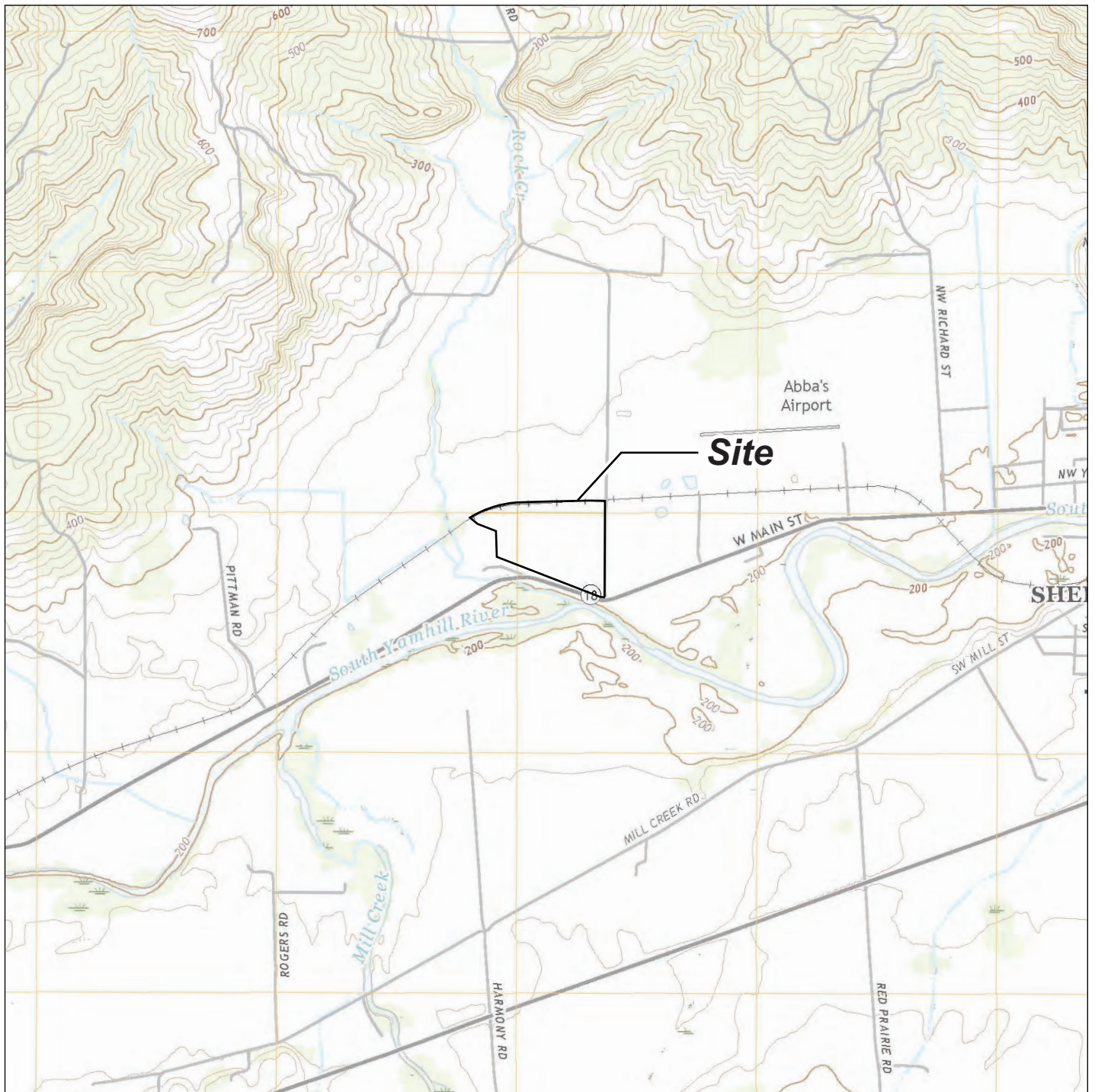


Table 3  
Groundwater Analytical Results  
Taylor Lumber and Treating

Well ID	Date of Measurement	Pentachlorophenol (µg/L)
Residences		
RW-01	May-99	< 25
	Feb-02	< 0.045
	May-02	< 0.049
	Aug-02	< 0.046
	Nov-02	< 0.32
	Feb-03	< 0.045
	May-03	< 0.046
	4/27/2011	< 0.33
	4/11/2012	< 0.41
	4/10/2013	< 0.31
	4/16/2014	< 0.31
	4/8/2015	< 0.31
	4/13/2016	< 0.313
	4/4/2017	< 0.313
	10/14/2022	< 0.040

**Notes:**

1. Sample dates for historical (pre-2005) data are not available; results available in month/year format only.
2. J = Result is an estimated value.
3. J+ = Result is an estimated value and may be biased high.
4. D = The relative percent difference (RPD) between the field sample duplicate exceeds the control limit of 30%
5. -- = Not Sampled
6. **BOLD** indicates analyte detected above method reporting limit.
7. DUP = Duplicate sample.
8. Top = Sample collected from the top of the well screen.
9. Bottom = Sample collected from the bottom of the well screen.



**Note:** Base map prepared from USGS 7.5-minute quadrangle of Sheridan, OR, 2020 as provided by USGS.gov.



0 2,000 4,000  
Approximate Scale in Feet

## Site Location Map

2022 Annual Groundwater Monitoring Report  
Taylor Lumber and Treating Superfund Site  
Sheridan, Oregon



Apex Companies, LLC  
15618 SW 72nd Avenue  
Tigard, Oregon 97224

Project Number: 32-21002305  
Drawn: JP  
Approved: CO

December 2022

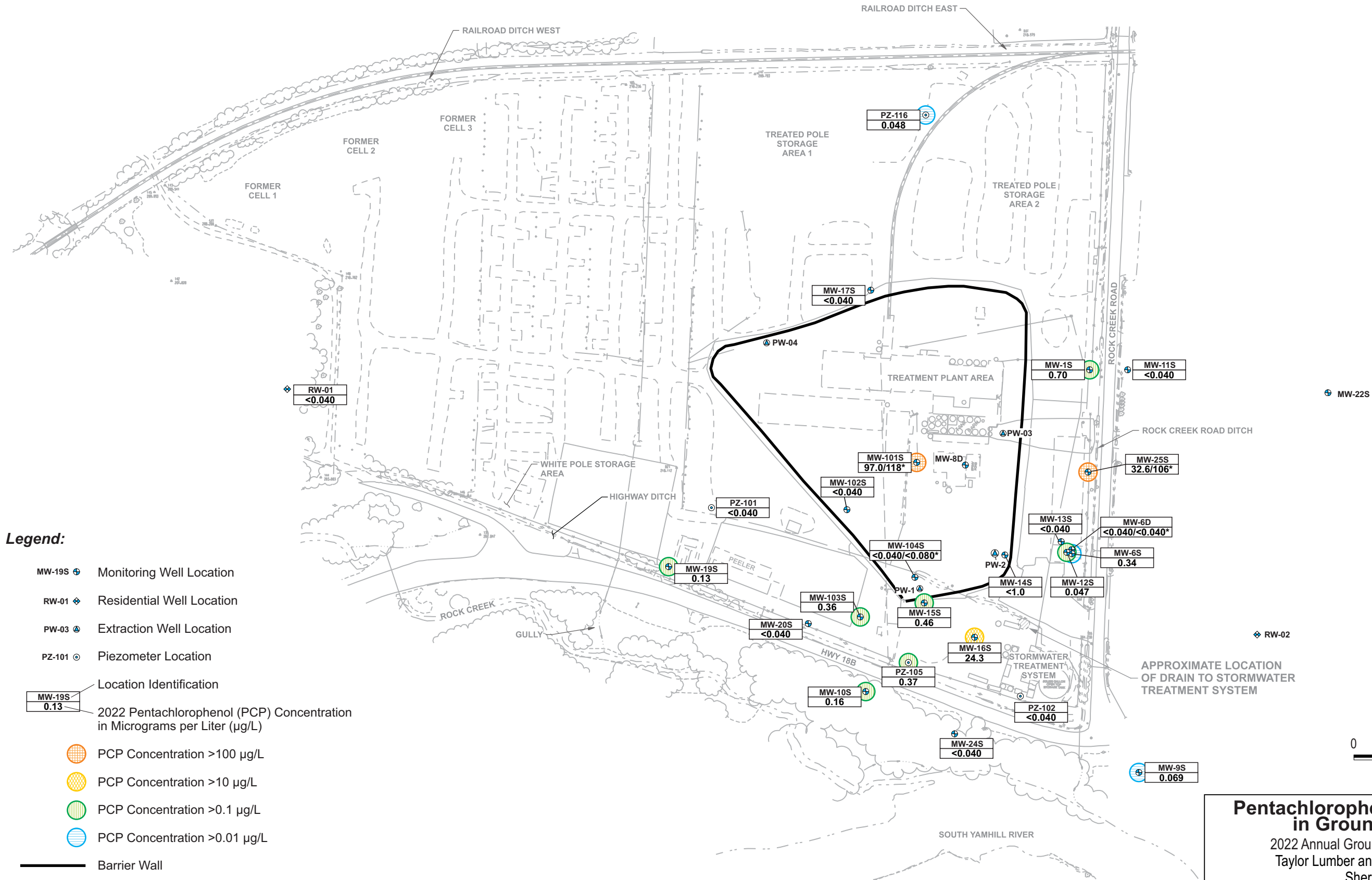
Figure  
**1**







I:\Client\DEQ\Oregon\32-21002305 Taylor Lumber\2022 GW Monitoring\32-21002305 04 (PCP in GW) des



## Pentachlorophenol Concentrations in Groundwater (2022)

2022 Annual Groundwater Monitoring Report  
Taylor Lumber and Treating Superfund Site  
Sheridan, Oregon

Apex Companies, LLC  
15618 SW 72nd Avenue  
Tigard, Oregon 97224

Project Number: 32-21002305  
Drawn: JP  
Approved: CO

December 2022

Figure

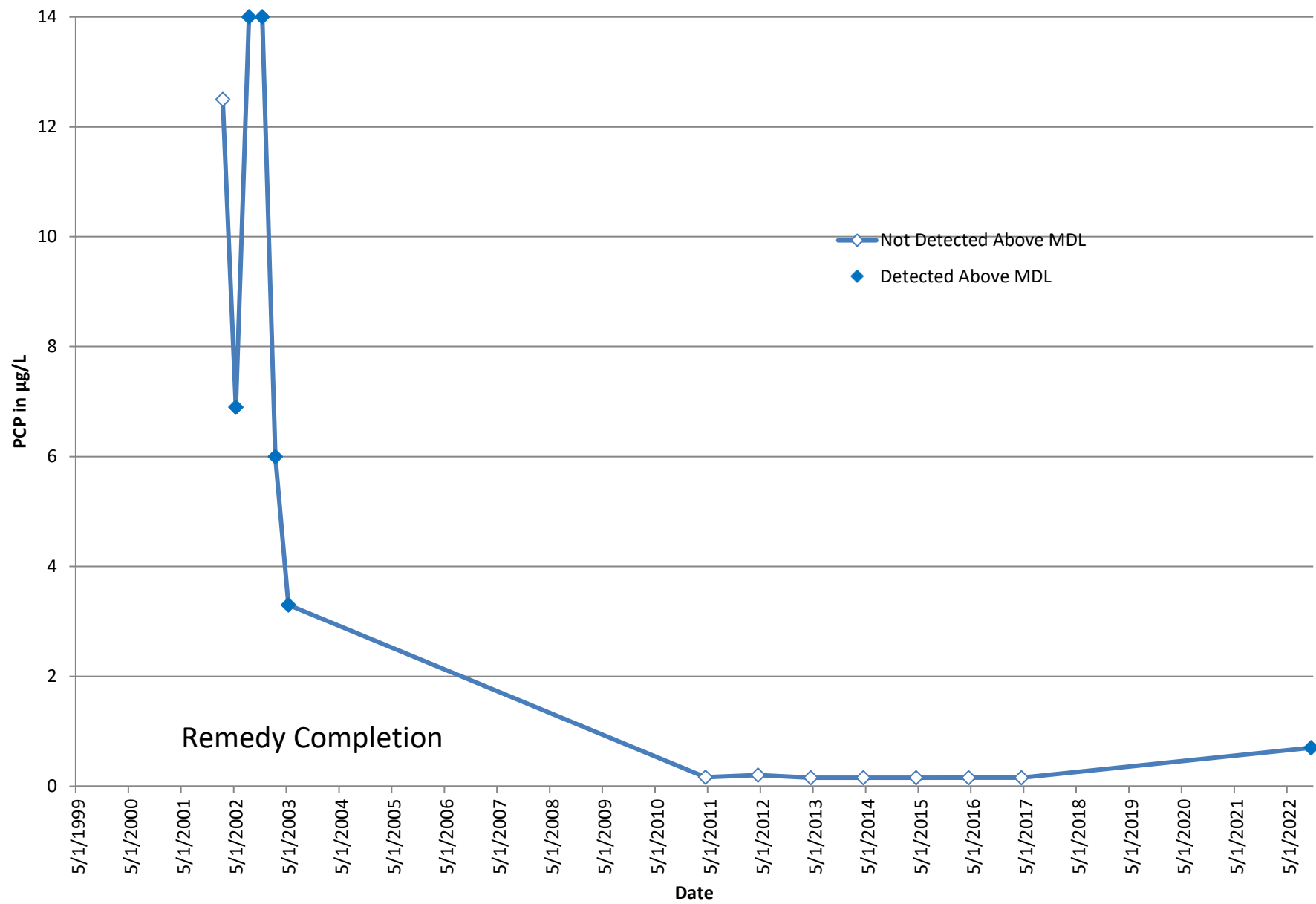
4

## ***Appendix A***

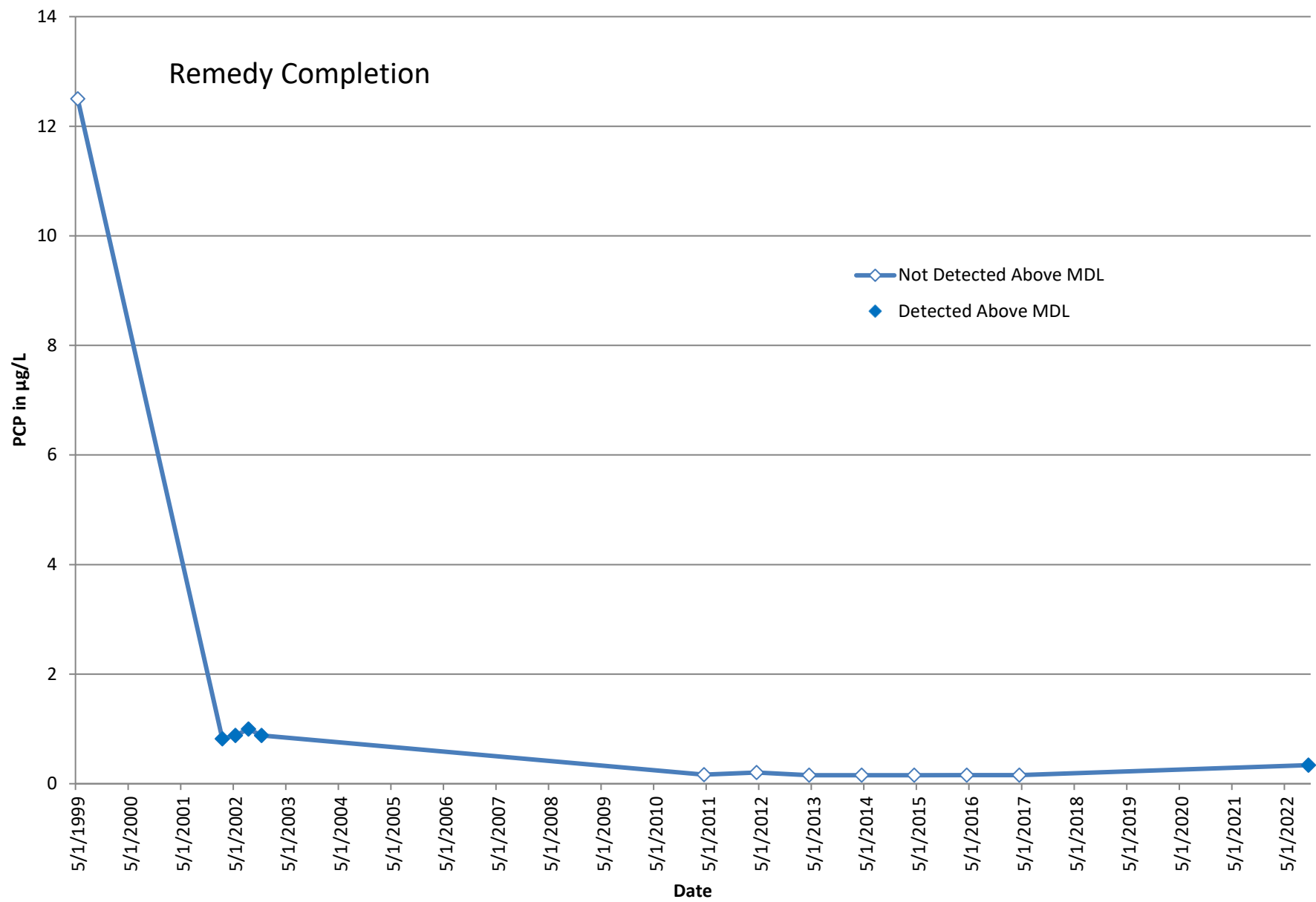
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### **Trend Plots for Select Wells**

## MW-1S

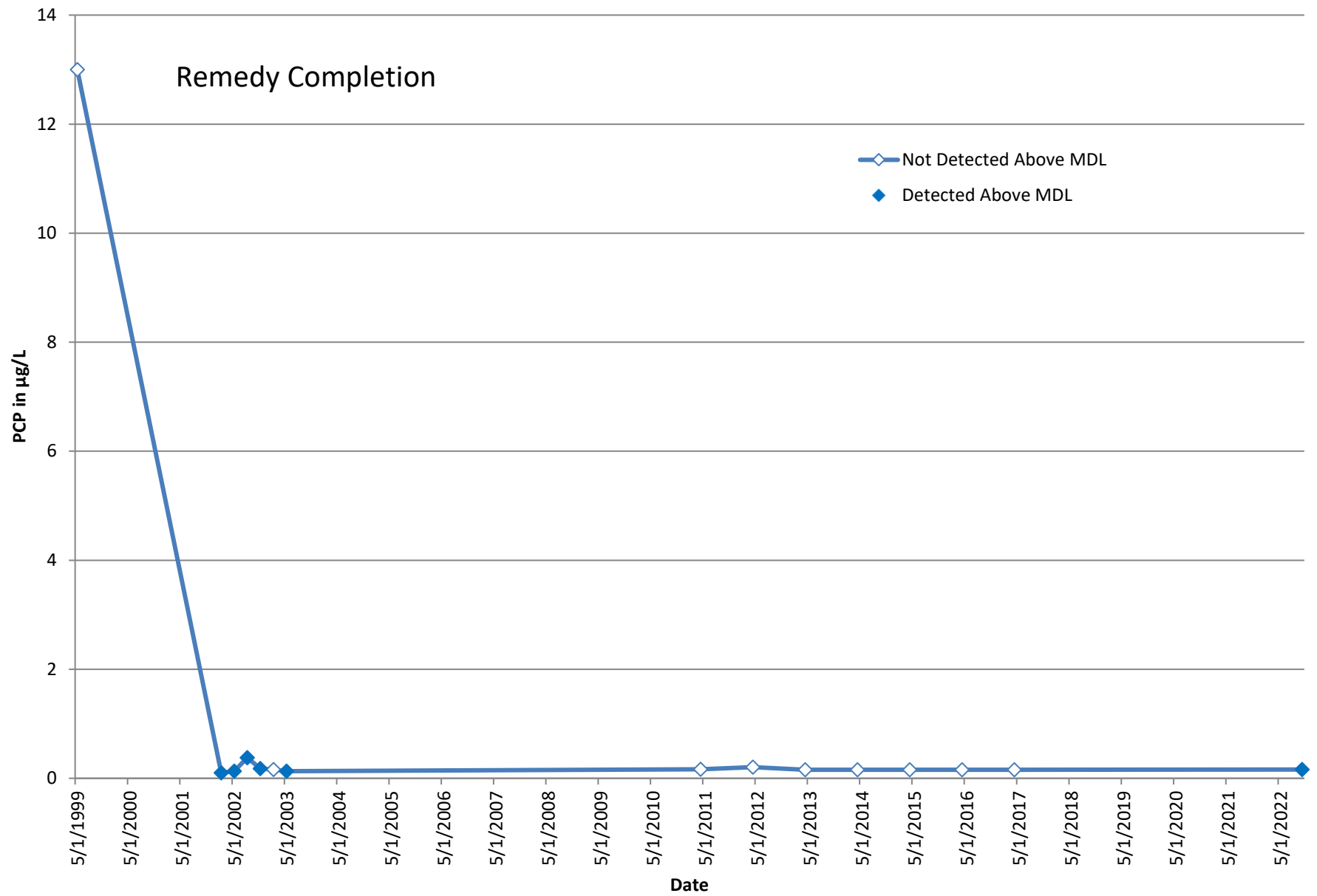


## MW-6S

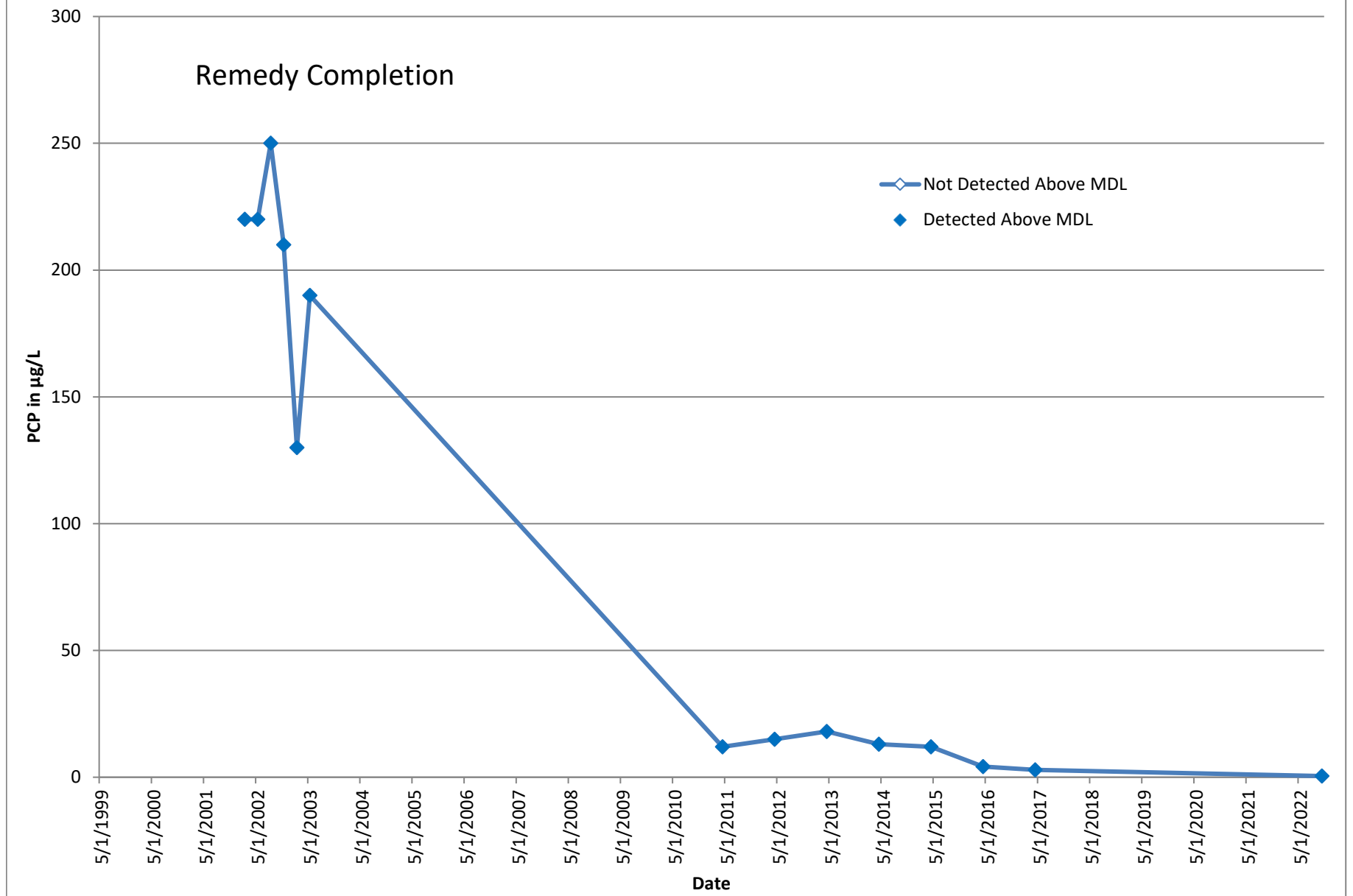




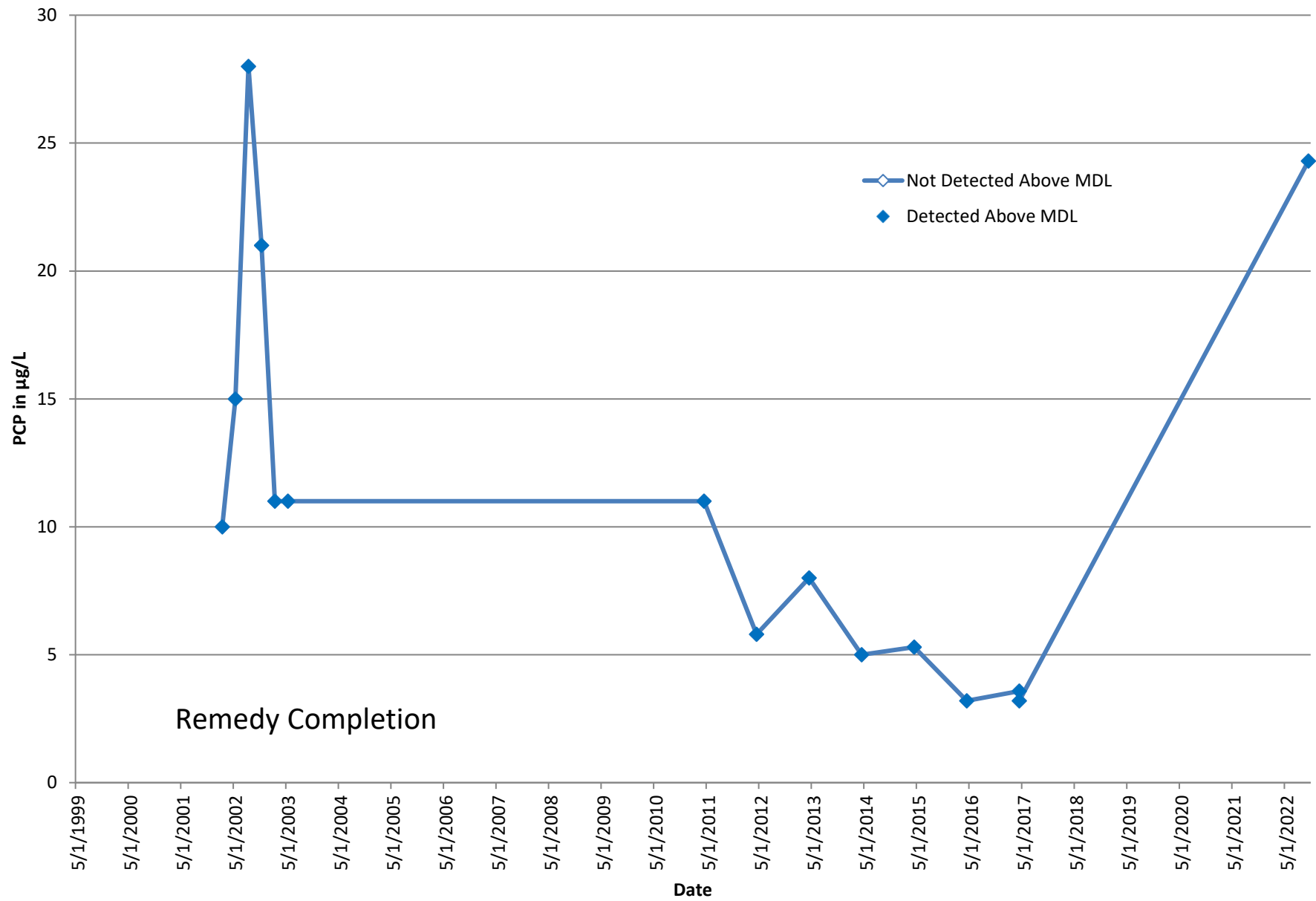
## MW-10S



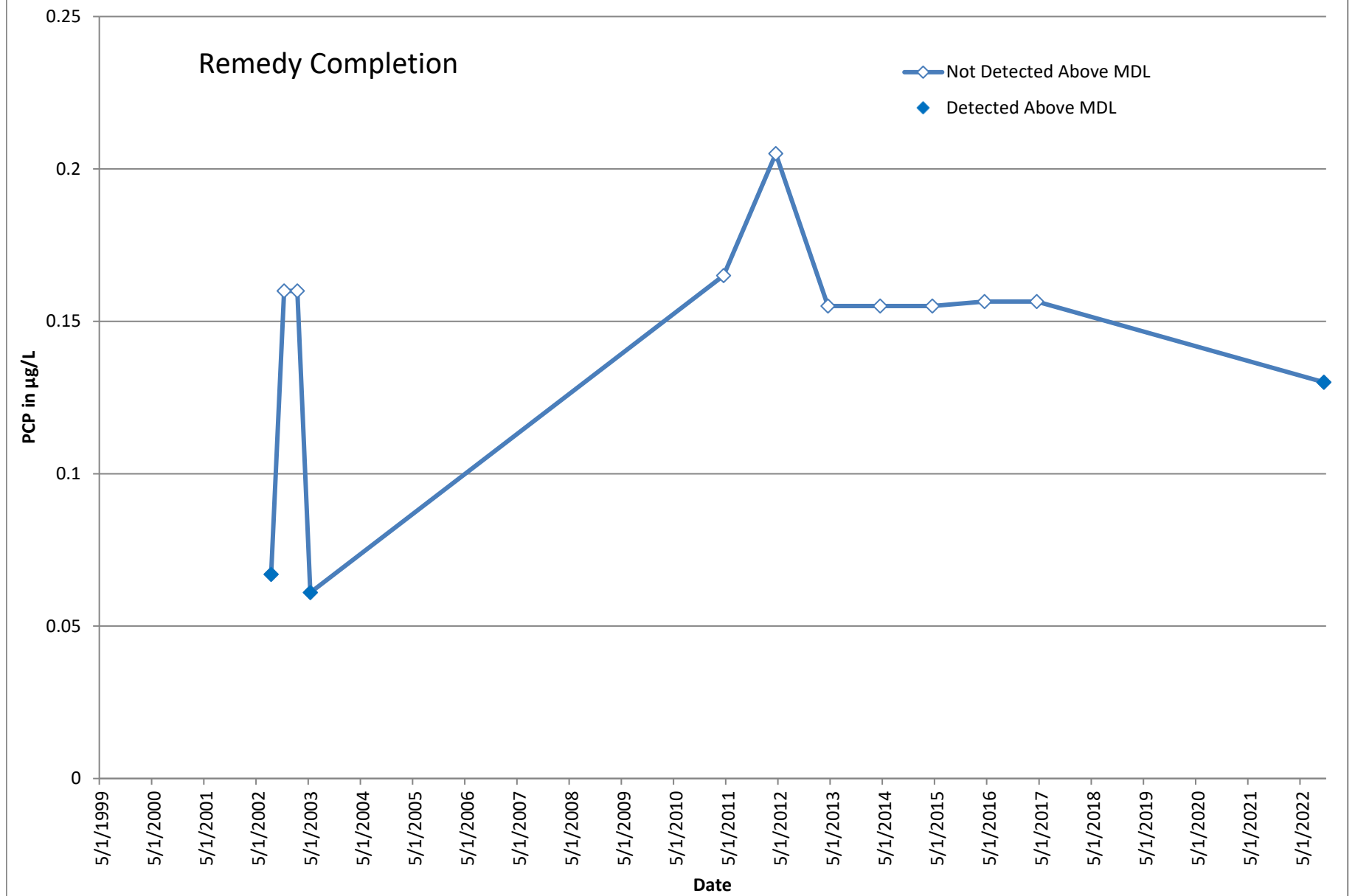
## MW-15S



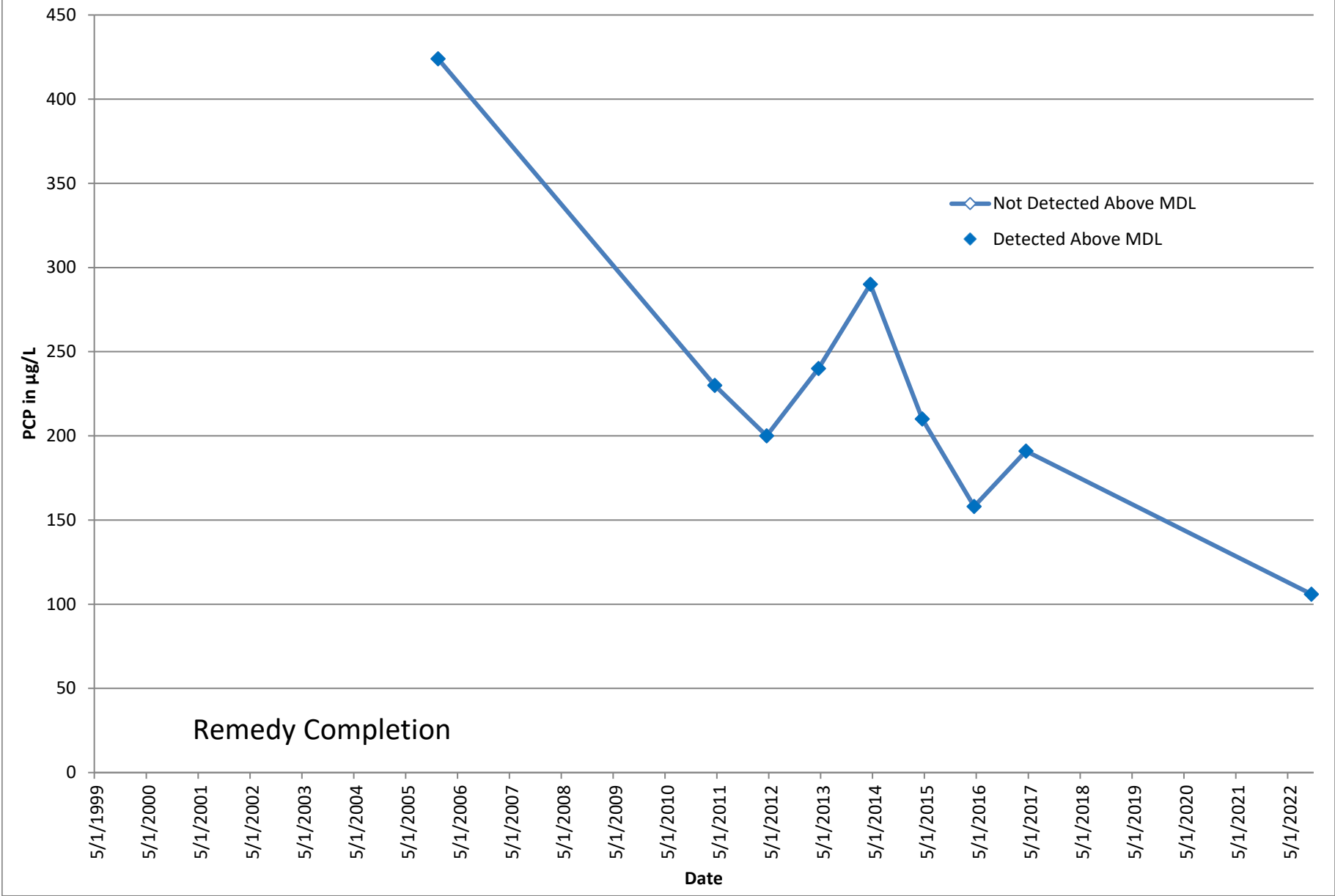
## MW-16S



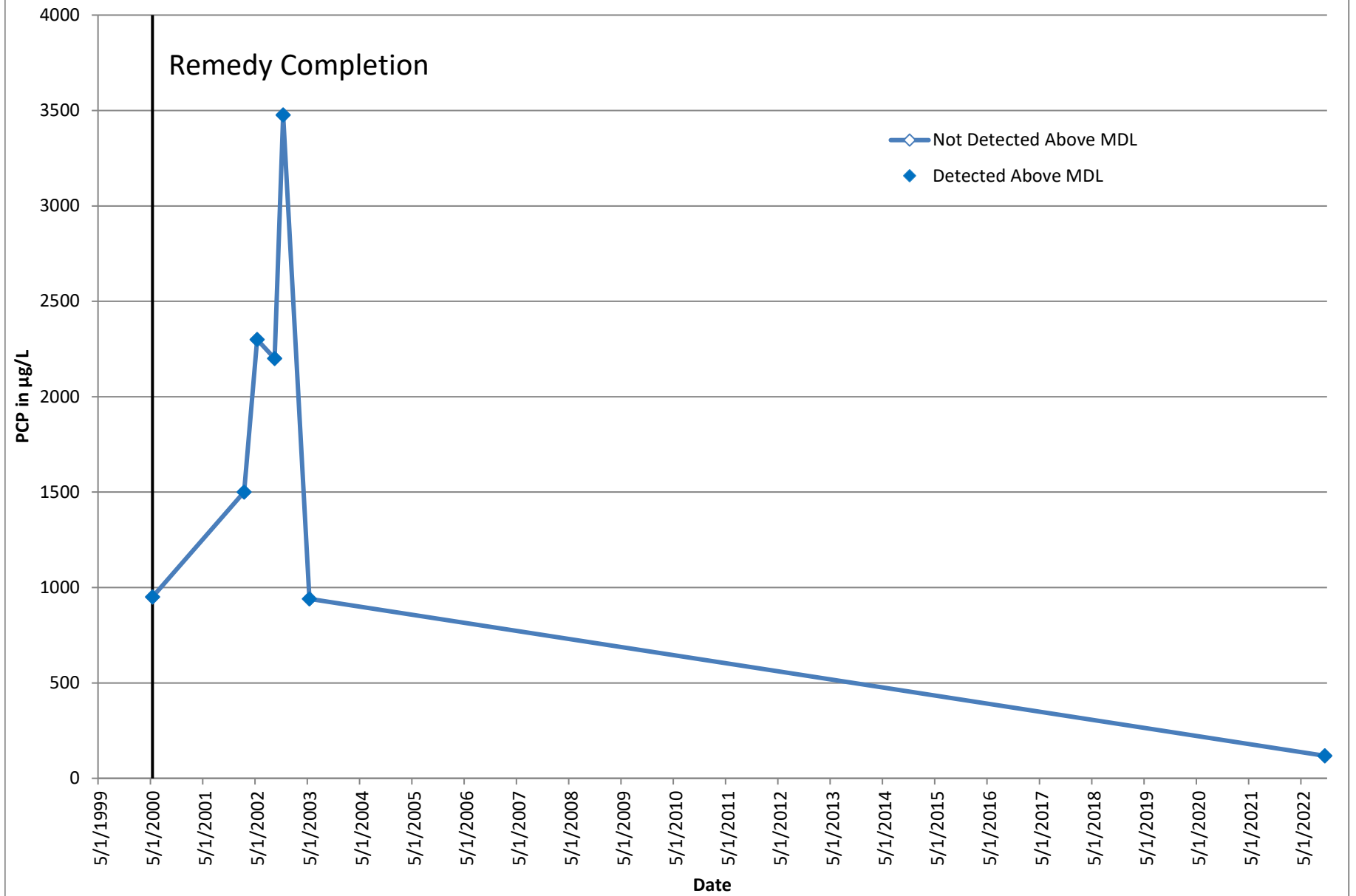
## MW-19S



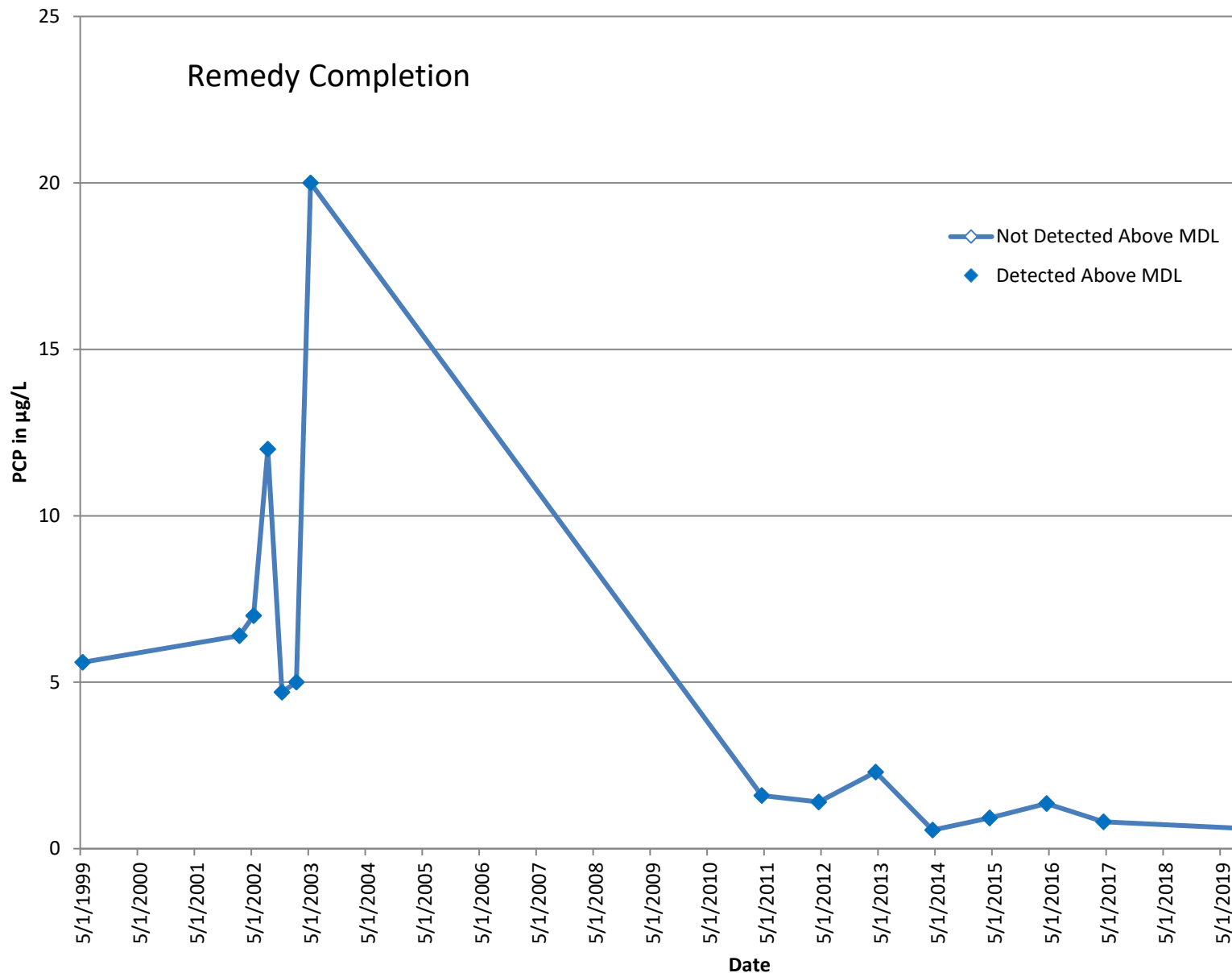
MW-25S



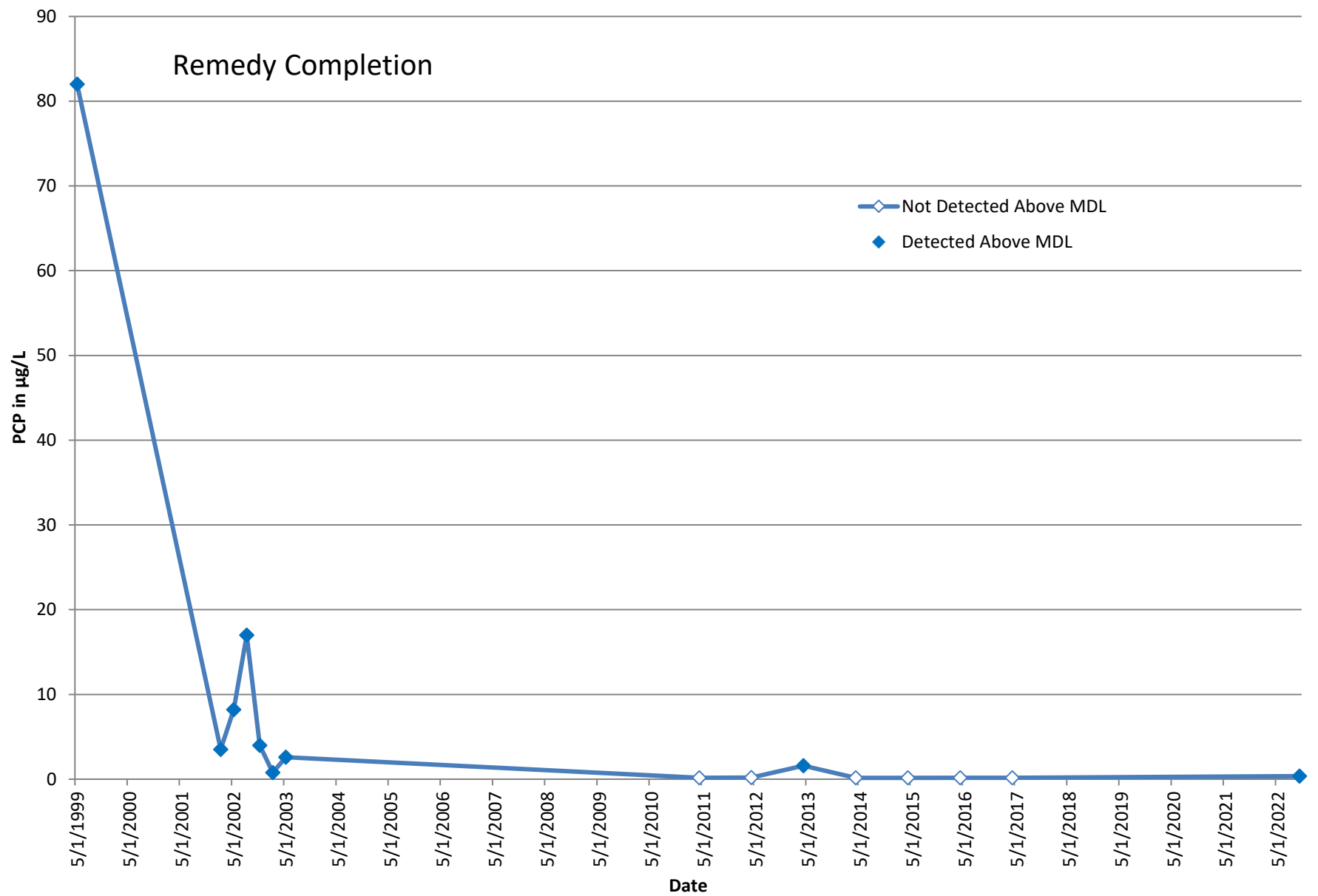
## MW-101S



## MW-103S



## PZ-105





## ***Appendix B***

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### **Laboratory Analytical Report and Data Quality Review**

## ***Appendix B – QA/QC Review***

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This appendix documents the results of a quality assurance/quality control (QA/QC) review of the analytical data for groundwater samples collected in October 2022 for the former Taylor Lumber and Treating (TLT) Superfund Site. Samples were analyzed by Pace Analytical National Center for Testing and Innovation (Pace) of Mount Juliet, Tennessee. A copy of the analytical laboratory report is included in this appendix, referenced as follows:

Report	Report Date	Sampling Event
L1548527	November 8, 2022	Groundwater Samples
L1549834	November 11, 2022	Groundwater Samples

### **1.0 Analytical Methods**

Chemical analyses for groundwater sampling consisted of the following:

- Pentachlorophenol (PCP) by U.S. Environmental Protection Agency (EPA) Method 8270

### **2.0 Data Validation**

The QA review included examination and validation of the laboratory data packages for the following:

- Analytical preparation and quantitation methods;
- Analytical method holding times;
- Sample handling;
- Chain of custody procedures;
- Detection and reporting limits;
- Method blank detections;
- Laboratory control samples and surrogates to assess accuracy; and
- Laboratory control sample duplicates and field duplicates to assess precision.

The QA/QC review did not include a review of raw data.

This QA/QC review documents the relationship between analytical findings and data quality objectives based on precision and accuracy. It also summarizes possible error or bias and the effect on data quality and usability.

The laboratory quality control (QC) samples provided in data packages were used to evaluate laboratory contamination or background interferences, sample preparation efficiency and instrumentation performance.

## ***Appendix B – QA/QC Review***

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The QC samples provided by the analytical laboratory included: method blanks and laboratory control samples (LCS/LCSD). Surrogates are also required for VOC and TPHg analysis to assess sample preparation efficiency and matrix interferences.

### **2.1 Data Qualifiers**

Any data that is found to have possible bias or error was qualified and flagged. The following are definitions of qualifiers used in this data quality report and data tables.

J+	Result is an estimated value and may be biased high.
UJ	The analyte was not detected but the reporting limit is estimated.
J-	Result is an estimated value and may be biased low.

### **3.0 Data Quality Assurance Review**

The general QA objectives for this project were to develop and implement procedures for obtaining, evaluating, and confirming the usability of data of a specified quality. To collect such information, analytical data must have an appropriate degree of accuracy and reproducibility, samples collected must be representative of actual field conditions, and samples must be collected and analyzed using unbroken chain of custody procedures.

Reporting limits and analytical results were compared to cleanup and screening levels for each parameter in the matrix of concern. Precision, accuracy, completeness, and comparability parameters used to indicate data quality are discussed below.

#### **3.1 Reporting Limits**

Reporting limits are the lowest concentration an instrument is capable of accurately detecting an analyte. Reporting limits are determined by the laboratory and are based on instrumentation capabilities, the matrix of field samples, sample preparation procedures and EPA suggested reporting limits. Reporting limits were below risk-based screening levels.

#### **3.2 Holding Times and Sample Receipt**

The holding time is the minimum amount of time the sample can be stored before analytes start to degrade and are not representative of initial sampling concentrations. Holding times are defined by analytical methods. Below is a table outlining method holding times based on sampling procedures during this sampling event.

## Appendix B – QA/QC Review

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Method	Matrix	Analytes	Preservative	Hold Time
EPA 8270	Water	PCP	None	14 days

Groundwater samples were analyzed within the method recommended holding.

The integrity of the samples received by the laboratory was documented by the *Pace Cooler Receipt Form*, which ensures that samples are representative of the field and were not compromised during shipment. The groundwater sampling containers were received by the analytical laboratory on ice below the recommended sample storage temperature.

The chain of custody followed an unbroken procedure and was relinquished by the Apex Companies sampler and received by the analytical laboratory. The sample ID, collection time and requested analyses were all clearly and properly filled in by the Apex Companies sampler.

### 3.3 Method Blanks

A method – or laboratory – blank is a sample prepared in the laboratory along with the actual samples and analyzed for the same parameters at the same time. It is used to assess if detected compounds may have been the result of contamination or background levels in the laboratory. PCP was not detected in laboratory blanks.

### 3.4 Accuracy

Accuracy is assessed through the comparison of analytes of known concentration to concentrations determined analytically. A percent recovery is calculated from the analytical concentration to the known concentration of analyte, which must be within control limits established by methods. If the percent recovery is outside of control limits, then data might be compromised. The analytical laboratory will provide quality control samples and surrogates to help determine the accuracy of the data provided. These quality control samples and surrogates are discussed below.

#### 3.4.1 Laboratory Control Samples

Laboratory control samples (LCS) were analyzed by the laboratory to assess the accuracy of the analytical methods. One set of LCSs were analyzed per analytical batch. The samples were prepared from an analyte-free matrix that was then spiked with known levels of constituents of interest (COI; i.e. a standard). The concentrations were measured, and the results compared to the known spiked levels. This comparison is expressed as percent recovery. All recoveries were within quality control limits for the LCS samples.

### **3.4.2 Surrogates**

Surrogates are organic compounds that are similar in chemical composition to the analytes of interest but are not likely to be found in the environment. They are spiked into environmental and batch QC samples prior to sample preparation and analysis. Surrogate recoveries for environmental samples are used to evaluate matrix interference and sample preparation and analysis efficiency on a sample-specific basis.

The surrogate for the groundwater sample collected from well MW-1S was recovered above the upper control limit. The PCP result for well MW-1S is considered an estimated value that may be biased high and is 'J+' flagged.

### **3.5 Precision**

Precision is measured by how close concentrations of duplicate analyses are to each other. These duplicate analyses are of separate aliquots of the same sample that are prepared or analyzed at the same (or similar) time. Precision in the field ensures that samples taken are representative of field concentrations. Field precision is demonstrated by field duplicates. Analytical precision is measured by the laboratory through duplicate analysis of samples and quality control samples. Precision is estimated by the relative percent difference (RPD) between the original analysis and the duplicate analysis.

#### **3.5.1 Matrix Spikes**

A matrix spike QC sample is used to assess the performance of the analytical method by determining potential matrix interferences. Matrix spike (MS) and matrix spike duplicate (MSD) analyses are performed on one environmental sample per analytical batch. A matrix spike sample uses an environmental sample that is spiked with known concentrations of analytes of interest. The matrix spike is then prepared and analyzed with the same analytical procedures as environmental samples in the analytical batch. The resulting concentration of the matrix spike is then compared to the known – or true – values plus the non-spiked environmental sample concentration. This comparison is expressed as a percent recovery. The difference between the MS and MSD is expressed as a relative percent difference (PRD).

For analytical batch 865994, the recovery of PCP was below the lower control limit. PCP was not detected above method detection limits in associated samples MW-6D (bottom of screen) and results are 'UJ' flagged. PCP was detected above the method detection limit in associated samples MW-6S, MW-12S, MW-15S, and MW-25S (both top and bottom of screen). PCP is J minus (J-) flagged as estimated values that may be biased low. All other percent recoveries and RPDs were within quality control limits.

## ***Appendix B – QA/QC Review***

---

### ***3.5.2 Field Duplicate***

A field duplicate is a second field sample collected from a selected sample location. Field duplicate samples serve as a check on laboratory precision and sampling quality, as well as potential variability of the sample matrix. The field duplicate is analyzed and compared to the original sample to assess precision. This comparison can be expressed by the RPD between the original and duplicate samples. Only detections greater than the reporting limit are controlled and used for quality control purposes.

Field duplicates were collected from two wells, however, the data sheets which recorded the identify of the wells were inadvertently lost. Because of this, the RPD between the primary and duplicate samples cannot be calculated.

## **4.0 Conclusion**

In conclusion, the QA objectives have been met and the data are of sufficient quality for use in this project.

## Oregon Dept. of Env. Quality - ODEQ

Sample Delivery Group: L1548527  
Samples Received: 10/20/2022  
Project Number: ORE002-03090  
Description: Taylor Lumber

Report To: Nancy Sawka

Entire Report Reviewed By:



Brian Ford  
Project Manager



Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

**Pace Analytical National**

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 [www.pacenational.com](http://www.pacenational.com)

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		<sup>7</sup> Sc



# SAMPLE SUMMARY

## MW-6S L1548527-01 DW

				Collected by FS / RS	Collected date/time 10/12/22 12:26	Received date/time 10/20/22 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1946749	1	11/08/22 00:00	11/08/22 00:00	-	Ormond Beach, FL 32174

## MW-6DB L1548527-02 DW

				Collected by FS / RS	Collected date/time 10/12/22 15:33	Received date/time 10/20/22 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1946749	1	11/08/22 00:00	11/08/22 00:00	-	Ormond Beach, FL 32174

## MW-12S L1548527-03 DW

				Collected by FS / RS	Collected date/time 10/13/22 10:25	Received date/time 10/20/22 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1946749	1	11/08/22 00:00	11/08/22 00:00	-	Ormond Beach, FL 32174

## MW-13S L1548527-04 DW

				Collected by FS / RS	Collected date/time 10/14/22 11:17	Received date/time 10/20/22 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1946749	1	11/08/22 00:00	11/08/22 00:00	-	Ormond Beach, FL 32174

## MW-14S L1548527-05 DW

				Collected by FS / RS	Collected date/time 10/14/22 09:29	Received date/time 10/20/22 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1946749	1	11/08/22 00:00	11/08/22 00:00	-	Ormond Beach, FL 32174

## MW-15S L1548527-06 DW

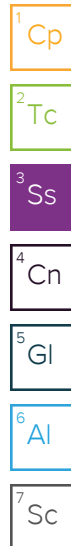
				Collected by FS / RS	Collected date/time 10/13/22 13:21	Received date/time 10/20/22 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1946749	1	11/08/22 00:00	11/08/22 00:00	-	Ormond Beach, FL 32174

## MW-16S L1548527-07 DW

				Collected by FS / RS	Collected date/time 10/13/22 12:28	Received date/time 10/20/22 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1946749	1	11/08/22 00:00	11/08/22 00:00	-	Ormond Beach, FL 32174

## MW-17S L1548527-08 DW

				Collected by FS / RS	Collected date/time 10/14/22 14:08	Received date/time 10/20/22 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1946749	1	11/08/22 00:00	11/08/22 00:00	-	Ormond Beach, FL 32174



# SAMPLE SUMMARY

## MW-19S L1548527-09 DW

				Collected by FS / RS	Collected date/time 10/14/22 12:00	Received date/time 10/20/22 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1946749	1	11/08/22 00:00	11/08/22 00:00	-	Ormond Beach, FL 32174

## MW-25ST L1548527-10 DW

				Collected by FS / RS	Collected date/time 10/12/22 10:50	Received date/time 10/20/22 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1946749	1	11/08/22 00:00	11/08/22 00:00	-	Ormond Beach, FL 32174

## MW-25SB L1548527-11 DW

				Collected by FS / RS	Collected date/time 10/12/22 10:47	Received date/time 10/20/22 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1946749	1	11/08/22 00:00	11/08/22 00:00	-	Ormond Beach, FL 32174

## MW-20S L1548527-12 DW

				Collected by FS / RS	Collected date/time 10/13/22 12:45	Received date/time 10/20/22 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1946749	1	11/08/22 00:00	11/08/22 00:00	-	Ormond Beach, FL 32174

## MW-101ST L1548527-13 DW

				Collected by FS / RS	Collected date/time 10/14/22 10:53	Received date/time 10/20/22 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1946749	1	11/08/22 00:00	11/08/22 00:00	-	Ormond Beach, FL 32174

## MW-101SB L1548527-14 DW

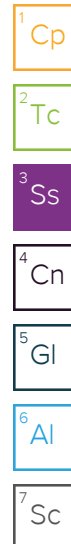
				Collected by FS / RS	Collected date/time 10/14/22 10:47	Received date/time 10/20/22 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1946749	1	11/08/22 00:00	11/08/22 00:00	-	Ormond Beach, FL 32174

## MW-102S L1548527-15 DW

				Collected by FS / RS	Collected date/time 10/13/22 14:30	Received date/time 10/20/22 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1946749	1	11/08/22 00:00	11/08/22 00:00	-	Ormond Beach, FL 32174

## MW-103S L1548527-16 DW

				Collected by FS / RS	Collected date/time 10/13/22 11:26	Received date/time 10/20/22 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1946749	1	11/08/22 00:00	11/08/22 00:00	-	Ormond Beach, FL 32174



# SAMPLE SUMMARY

## MW-104ST L1548527-17 DW

				Collected by FS / RS	Collected date/time 10/13/22 15:44	Received date/time 10/20/22 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1946749	1	11/08/22 00:00	11/08/22 00:00	-	Ormond Beach, FL 32174

## MW-104SB L1548527-18 DW

				Collected by FS / RS	Collected date/time 10/13/22 15:37	Received date/time 10/20/22 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1946749	1	11/08/22 00:00	11/08/22 00:00	-	Ormond Beach, FL 32174

## MW-9S L1548527-19 DW

				Collected by FS / RS	Collected date/time 10/14/22 08:30	Received date/time 10/20/22 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1946749	1	11/08/22 00:00	11/08/22 00:00	-	Ormond Beach, FL 32174

## MW-10S L1548527-20 DW

				Collected by FS / RS	Collected date/time 10/14/22 10:25	Received date/time 10/20/22 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1946749	1	11/08/22 00:00	11/08/22 00:00	-	Ormond Beach, FL 32174

## MW-24S L1548527-21 DW

				Collected by FS / RS	Collected date/time 10/14/22 09:20	Received date/time 10/20/22 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1946749	1	11/08/22 00:00	11/08/22 00:00	-	Ormond Beach, FL 32174

## MW-11S L1548527-22 DW

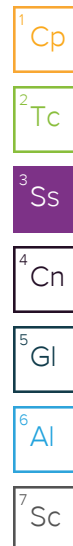
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Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1946749	1	11/08/22 00:00	11/08/22 00:00	-	Ormond Beach, FL 32174

## PZ-101 L1548527-23 DW

				Collected by FS / RS	Collected date/time 10/14/22 13:09	Received date/time 10/20/22 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1946749	1	11/08/22 00:00	11/08/22 00:00	-	Ormond Beach, FL 32174

## PZ-116 L1548527-24 DW

				Collected by FS / RS	Collected date/time 10/14/22 15:02	Received date/time 10/20/22 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1946749	1	11/08/22 00:00	11/08/22 00:00	-	Ormond Beach, FL 32174



# SAMPLE SUMMARY

## RW-01 L1548527-25 DW

				Collected by FS / RS	Collected date/time 10/14/22 16:14	Received date/time 10/20/22 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1946749	1	11/08/22 00:00	11/08/22 00:00	-	Ormond Beach, FL 32174

## PZ-102 L1548527-26 DW

				Collected by FS / RS	Collected date/time 10/13/22 09:17	Received date/time 10/20/22 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1946749	1	11/08/22 00:00	11/08/22 00:00	-	Ormond Beach, FL 32174

## PZ-105 L1548527-27 DW

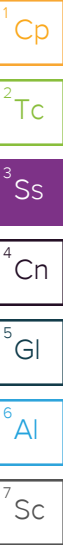
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Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1946749	1	11/08/22 00:00	11/08/22 00:00	-	Ormond Beach, FL 32174

## DUP-1 L1548527-28 DW

				Collected by FS / RS	Collected date/time 10/14/22 11:29	Received date/time 10/20/22 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1946749	1	11/08/22 00:00	11/08/22 00:00	-	Ormond Beach, FL 32174

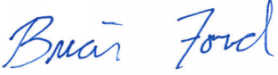
## DUP-2 L1548527-29 DW

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Subcontracted Analyses	WG1946749	1	11/08/22 00:00	11/08/22 00:00	-	Ormond Beach, FL 32174



# CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

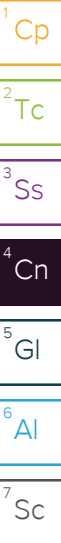


Brian Ford  
Project Manager

## Project Narrative

---

L1548527 -01, -02, -03, -04, -05, -06, -07, -08, -09, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29 contains subout data that is included after the chain of custody.



# GLOSSARY OF TERMS

## Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

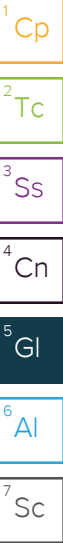
Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

## Abbreviations and Definitions

SDG	Sample Delivery Group.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

## Qualifier Description

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.



# ACCREDITATIONS & LOCATIONS

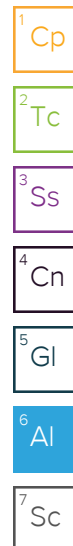
## Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey--NELAP	TN002
California	2932	New Mexico <sup>1</sup>	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	923	North Dakota	R-140
Idaho	TN00003	Ohio--VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky <sup>1,6</sup>	KY90010	South Carolina	84004002
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1,4</sup>	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA -- ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA -- ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA--Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

\* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.



Agency, Authorized Purchaser or Agent: Oregon DEQ					Contract Laboratory Name: Apex Labs					Lab Selection Criteria:					Turn Around Time:									
Send Lab Report To: Address: Department of Environmental Quality 2020 SW Fourth Ave, Suite 400 Portland, OR 97201-4987 TEL. 5039244704x1901 E-mail: Paula.Richardson@apexcos.com					Lab Batch #: A2J0574					Invoice To: Delia Chadwick - ODEQ/Business Office 811 SW 6th Ave Portland, OR 97204 Tel. #: (800) 452-4011					<input type="checkbox"/> Proximity (if TAT < 48 hrs) <input type="checkbox"/> Prior work on same project <input checked="" type="checkbox"/> Cost (for anticipated analyses) <input type="checkbox"/> Other labs disqualified or unable to perform requested services <input type="checkbox"/> Emergency work					<input checked="" type="checkbox"/> 10 days (std.) <input type="checkbox"/> 5 days <input type="checkbox"/> 72 hours <input type="checkbox"/> 48 hours <input type="checkbox"/> 24 hours <input type="checkbox"/> Other				
Project Name: Taylor Lumber Project #: ORE002-03090 Sampler Name: Franklin Sullivan/Robert Schettler					Sample Preservative					Requested Analyses														
Sample ID#					Collection Date/Time		Matri X	Number of Contain- MFS	Pentachlorophenol (PCP) EPA 515.3										Comments					
MW-1S					10/14/22@ 1553		GW	10	X															
MW-6S					10/12/22@ 1226		GW	1	X									01						
MW-6DT					10/12/22@ 1259		GW	10	X									02						
MW-6DB					10/12/22@ 1533		GW	1	X									03						
MW-12S					10/13/22@ 1025		GW	1	X									04						
MW-13S					10/14/22@ 1117		GW	1	X									05						
MW-14S					10/14/22@ 0929		GW	1	X									06						
MW-15S					10/13/22@ 1321		GW	1	X									07						
MW-16S					10/13/21@ 1228		GW	1	X									08						
MW-17S					10/14/22@ 1408		GW	1	X									09						
MW-19S					10/14/22@ 1200		GW	1	X									10						
MW-25ST					10/12/22@ 1050		GW	1	X									11						
MW-25SB					10/12/22@ 1047		GW	1	X									12						
MW-20S					10/13/22@ 1245		GW	1	X									13						
MW-101ST					10/14/22@ 1053		GW	1	X									14						
MW-101SB					10/14/22@ 1047		GW	1	X															

Sample Receipt Checklist

COC Seal Present/Intact: Y N IF Applicable

COC Signed/Accurate: Y N VOA Zero Headspace: Y N

Bottles arrive intact: Y N Pres. Correct/Check: Y N

Correct bottles used: Y N

Sufficient volume sent: Y N

RAD Screen <0.5 mR/hr: Y N

Notes:

Relinquished By: Robert Schettler	Agency/Agent: Apex Companies	Received By: Apex Andy Mariposa	Agency:
Signature: [Signature]	Time & Date: 1805 10/17/22	Signature: [Signature]	Time & Date: 1805 10/17/22
Relinquished By: [Signature]	Agency/Agent:	Received By: Paula Parrott @ apexcos	Agency/Agent:
Signature: [Signature] 10/19/22 1205	Time & Date: 10/19/22	Signature: [Signature]	Time & Date: 10/19/22 1207



Project Name: <b>Taylor Lumber</b> Project #: <b>ORE002-03090</b> Sampler Name: Franklin Sullivan/Robert Schettler			Sample Preservative								
	HCl	NONE									
			Requested Analyses								

[illegible]

Time &amp; Date:

<u>Tracking Numbers</u>		<u>Temperature</u>
58827553 8780		JAA7 2.8+0=2.8
/ 8790		JAA7 3.0+0=3.0
/ 8779		JAA7 5.7+0=5.7





10/20/22 - NCF L1548527 OREGONDEQ

R5

Time estimate: oh

Time spent: oh

Members

-  Matthew Shacklock (responsible)
-  Brian Ford

- ☐ Parameter(s) past holding time
- ☐ Temperature not in range
- ☐ Improper container type
- ☐ pH not in range
- ☐ Insufficient sample volume
- ☐ Sample is biphasic
- ☐ Vials received with headspace
- ☒ Broken container
- ☐ Sufficient sample remains
- ☐ If broken container: Insufficient packing material around container
- ☐ If broken container: Insufficient packing material inside cooler
- ☐ If broken container: Improper handling by carrier: \_\_\_\_\_
- ☐ If broken container: Sample was frozen
- ☐ If broken container: Container lid not intact
- ☐ Client informed by Call
- ☒ Client informed by Email
- ☐ Client informed by Voicemail
- ☐ Date/Time: \_\_\_\_\_
- ☒ PM initials: \_\_\_\_\_bjf\_\_\_\_\_
- ☐ Client Contact: \_\_\_\_\_

Comments

- Matthew Shacklock

20 October 2022 2:59 PM

Received MW1S and MW6DT broken. No sample remains.
- Brian Ford

20 October 2022 3:13 PM

proceed without MW1S and MW6DT
- Matthew Shacklock

20 October 2022 4:29 PM

Done

November 08, 2022

Project Manager  
Pace National  
12065 Lebanon Rd  
Mt. Juliet, TN 37122

RE: Project: L1548527 Taylor Lumber  
Pace Project No.: 35755105

Dear Project Manager:

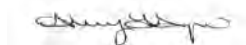
Enclosed are the analytical results for sample(s) received by the laboratory on October 22, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Ormond Beach

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Shelby Sharpe  
shelby.sharpe@pacelabs.com  
(386)672-5668  
Project Manager

Enclosures

cc: Jimmy Huckaba, Pace National



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: L1548527 Taylor Lumber

Pace Project No.: 35755105

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### **Pace Analytical Services Ormond Beach**

8 East Tower Circle, Ormond Beach, FL 32174

Alaska DEC- CS/UST/LUST

Alabama Certification #: 41320

Colorado Certification: FL NELAC Reciprocity

Connecticut Certification #: PH-0216

Delaware Certification: FL NELAC Reciprocity

Florida Certification #: E83079

Georgia Certification #: 955

Guam Certification: FL NELAC Reciprocity

Hawaii Certification: FL NELAC Reciprocity

Illinois Certification #: 200068

Indiana Certification: FL NELAC Reciprocity

Kansas Certification #: E-10383

Kentucky Certification #: 90050

Louisiana Certification #: FL NELAC Reciprocity

Louisiana Environmental Certificate #: 05007

Maine Certification #: FL01264

Maryland Certification: #346

Massachusetts Certification #: M-FL1264

Michigan Certification #: 9911

Mississippi Certification: FL NELAC Reciprocity

Missouri Certification #: 236

Montana Certification #: Cert 0074

Nebraska Certification: NE-OS-28-14

New Hampshire Certification #: 2958

New Jersey Certification #: FL022

New York Certification #: 11608

North Carolina Environmental Certificate #: 667

North Carolina Certification #: 12710

North Dakota Certification #: R-216

Ohio DEP 87780

Oklahoma Certification #: D9947

Pennsylvania Certification #: 68-00547

Puerto Rico Certification #: FL01264

South Carolina Certification: #96042001

Tennessee Certification #: TN02974

Texas Certification: FL NELAC Reciprocity

US Virgin Islands Certification: FL NELAC Reciprocity

Virginia Environmental Certification #: 460165

West Virginia Certification #: 9962C

Wisconsin Certification #: 399079670

Wyoming (EPA Region 8): FL NELAC Reciprocity

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE ANALYTE COUNT

Project: L1548527 Taylor Lumber

Pace Project No.: 35755105

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35755105001	MW-6S	EPA 515.3	LJM	2	PASI-O
35755105002	MW-6DB	EPA 515.3	LJM	2	PASI-O
35755105003	MW-12S	EPA 515.3	LJM	2	PASI-O
35755105004	MW-13S	EPA 515.3	SCL	2	PASI-O
35755105005	MW-14S	EPA 515.3	LJM, SCL	2	PASI-O
35755105006	MW-15S	EPA 515.3	LJM	2	PASI-O
35755105007	MW-16S	EPA 515.3	LJM	2	PASI-O
35755105008	MW-17S	EPA 515.3	SCL	2	PASI-O
35755105009	MW-19S	EPA 515.3	SCL	2	PASI-O
35755105010	MW-25ST	EPA 515.3	LJM	2	PASI-O
35755105011	MW-25SB	EPA 515.3	LJM	2	PASI-O
35755105012	MW-20S	EPA 515.3	LJM	2	PASI-O
35755105013	MW-101ST	EPA 515.3	LJM, SCL	2	PASI-O
35755105014	MW-101SB	EPA 515.3	LJM, SCL	2	PASI-O
35755105015	MW-102S	EPA 515.3	LJM	2	PASI-O
35755105016	MW-103S	EPA 515.3	LJM	2	PASI-O
35755105017	MW-104ST	EPA 515.3	LJM	2	PASI-O
35755105018	MW-104SB	EPA 515.3	LJM	2	PASI-O
35755105019	MW-9S	EPA 515.3	SCL	2	PASI-O
35755105020	MW-10S	EPA 515.3	SCL	2	PASI-O
35755105021	MW-24S	EPA 515.3	LJM	2	PASI-O
35755105022	MW-11S	EPA 515.3	LJM	2	PASI-O
35755105023	PZ-101	EPA 515.3	LJM	2	PASI-O
35755105024	PZ-116	EPA 515.3	LJM	2	PASI-O
35755105025	RW-01	EPA 515.3	LJM	2	PASI-O
35755105026	PZ-102	EPA 515.3	LJM	2	PASI-O
35755105027	PZ-105	EPA 515.3	LJM	2	PASI-O
35755105028	DUP-1	EPA 515.3	LJM	2	PASI-O
35755105029	DUP-2	EPA 515.3	LJM	2	PASI-O

PASI-O = Pace Analytical Services - Ormond Beach

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: L1548527 Taylor Lumber

Pace Project No.: 35755105

Sample: MW-6S		Lab ID: 35755105001		Collected: 10/12/22 13:26		Received: 10/22/22 11:59		Matrix: Water	
Parameters		Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
515.3 Chlorinated Herbicides		Analytical Method: EPA 515.3 Preparation Method: EPA 515.3 Pace Analytical Services - Ormond Beach							
Pentachlorophenol	0.34	ug/L	0.040	1	10/23/22 17:19	10/25/22 00:06	87-86-5	M1	
Surrogates									
2,4-DCAA (S)	94	%	70-130	1	10/23/22 17:19	10/25/22 00:06	19719-28-9		

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## ANALYTICAL RESULTS

Project: L1548527 Taylor Lumber

Pace Project No.: 35755105

Sample: MW-6DB		Lab ID: 35755105002		Collected: 10/12/22 16:33		Received: 10/22/22 11:59		Matrix: Water	
Parameters		Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
515.3 Chlorinated Herbicides		Analytical Method: EPA 515.3 Preparation Method: EPA 515.3 Pace Analytical Services - Ormond Beach							
Pentachlorophenol	ND	ug/L	0.040	1	10/23/22 17:19	10/25/22 01:35	87-86-5		
Surrogates									
2,4-DCAA (S)	92	%	70-130	1	10/23/22 17:19	10/25/22 01:35	19719-28-9		

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## ANALYTICAL RESULTS

Project: L1548527 Taylor Lumber

Pace Project No.: 35755105

Sample: MW-12S		Lab ID: 35755105003		Collected: 10/13/22 11:25		Received: 10/22/22 11:59		Matrix: Water	
Parameters		Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
515.3 Chlorinated Herbicides		Analytical Method: EPA 515.3 Preparation Method: EPA 515.3 Pace Analytical Services - Ormond Beach							
Pentachlorophenol	0.047	ug/L	0.040	1	10/23/22 17:19	10/25/22 08:59	87-86-5		
Surrogates									
2,4-DCAA (S)	100	%	70-130	1	10/23/22 17:19	10/25/22 08:59	19719-28-9		

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## ANALYTICAL RESULTS

Project: L1548527 Taylor Lumber

Pace Project No.: 35755105

Sample: MW-13S		Lab ID: 35755105004		Collected: 10/14/22 12:17		Received: 10/22/22 11:59		Matrix: Water	
Parameters		Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
515.3 Chlorinated Herbicides		Analytical Method: EPA 515.3 Preparation Method: EPA 515.3 Pace Analytical Services - Ormond Beach							
Pentachlorophenol	ND	ug/L	0.040	1	10/26/22 10:26	10/27/22 08:36	87-86-5		
Surrogates									
2,4-DCAA (S)	105	%	70-130	1	10/26/22 10:26	10/27/22 08:36	19719-28-9		

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## ANALYTICAL RESULTS

Project: L1548527 Taylor Lumber

Pace Project No.: 35755105

Sample: MW-14S		Lab ID: 35755105005		Collected: 10/14/22 10:29		Received: 10/22/22 11:59		Matrix: Water	
Parameters		Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
515.3 Chlorinated Herbicides		Analytical Method: EPA 515.3 Preparation Method: EPA 515.3 Pace Analytical Services - Ormond Beach							
Pentachlorophenol	ND	ug/L	1.0	25	10/26/22 10:26	10/28/22 08:13	87-86-5	D3	
Surrogates									
2,4-DCAA (S)	104	%	70-130	1	10/26/22 10:26	10/27/22 09:04	19719-28-9		

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## ANALYTICAL RESULTS

Project: L1548527 Taylor Lumber

Pace Project No.: 35755105

Sample: MW-15S		Lab ID: 35755105006		Collected: 10/13/22 14:21		Received: 10/22/22 11:59		Matrix: Water	
Parameters		Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
515.3 Chlorinated Herbicides		Analytical Method: EPA 515.3 Preparation Method: EPA 515.3 Pace Analytical Services - Ormond Beach							
Pentachlorophenol	0.46	ug/L	0.080	2	10/23/22 17:19	10/26/22 01:48	87-86-5		
Surrogates									
2,4-DCAA (S)	94	%	70-130	1	10/23/22 17:19	10/25/22 09:28	19719-28-9		

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## ANALYTICAL RESULTS

Project: L1548527 Taylor Lumber

Pace Project No.: 35755105

Sample: MW-16S		Lab ID: 35755105007		Collected: 10/13/22 13:28		Received: 10/22/22 11:59		Matrix: Water	
Parameters		Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
515.3 Chlorinated Herbicides		Analytical Method: EPA 515.3 Preparation Method: EPA 515.3 Pace Analytical Services - Ormond Beach							
Pentachlorophenol	24.3	ug/L	4.0	100	10/23/22 17:30	10/26/22 02:17	87-86-5		
Surrogates									
2,4-DCAA (S)	96	%	70-130	1	10/23/22 17:30	10/25/22 13:26	19719-28-9		

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## ANALYTICAL RESULTS

Project: L1548527 Taylor Lumber

Pace Project No.: 35755105

Sample: MW-17S		Lab ID: 35755105008		Collected: 10/14/22 15:08		Received: 10/22/22 11:59		Matrix: Water	
Parameters		Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
515.3 Chlorinated Herbicides		Analytical Method: EPA 515.3 Preparation Method: EPA 515.3 Pace Analytical Services - Ormond Beach							
Pentachlorophenol	ND	ug/L	0.040	1	10/26/22 10:26	10/27/22 09:32	87-86-5		
Surrogates									
2,4-DCAA (S)	103	%	70-130	1	10/26/22 10:26	10/27/22 09:32	19719-28-9		

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## ANALYTICAL RESULTS

Project: L1548527 Taylor Lumber

Pace Project No.: 35755105

Sample: MW-19S		Lab ID: 35755105009		Collected: 10/14/22 13:00		Received: 10/22/22 11:59		Matrix: Water	
Parameters		Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
515.3 Chlorinated Herbicides		Analytical Method: EPA 515.3 Preparation Method: EPA 515.3 Pace Analytical Services - Ormond Beach							
Pentachlorophenol	0.13	ug/L	0.040	1	10/26/22 10:26	10/27/22 10:00	87-86-5		
Surrogates									
2,4-DCAA (S)	103	%	70-130	1	10/26/22 10:26	10/27/22 10:00	19719-28-9		

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## ANALYTICAL RESULTS

Project: L1548527 Taylor Lumber

Pace Project No.: 35755105

Sample: MW-25ST		Lab ID: 35755105010		Collected: 10/12/22 11:50		Received: 10/22/22 11:59		Matrix: Water	
Parameters		Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
515.3 Chlorinated Herbicides		Analytical Method: EPA 515.3 Preparation Method: EPA 515.3 Pace Analytical Services - Ormond Beach							
Pentachlorophenol	32.6	ug/L	8.0	200	10/23/22 17:19	10/26/22 00:48	87-86-5		
Surrogates									
2,4-DCAA (S)	88	%	70-130	1	10/23/22 17:19	10/25/22 02:05	19719-28-9		

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## ANALYTICAL RESULTS

Project: L1548527 Taylor Lumber

Pace Project No.: 35755105

Sample: MW-25SB		Lab ID: 35755105011		Collected: 10/12/22 11:47		Received: 10/22/22 11:59		Matrix: Water	
Parameters		Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
515.3 Chlorinated Herbicides		Analytical Method: EPA 515.3 Preparation Method: EPA 515.3 Pace Analytical Services - Ormond Beach							
Pentachlorophenol	106	ug/L	40.0	1000	10/23/22 17:19	10/26/22 01:18	87-86-5		
Surrogates									
2,4-DCAA (S)	85	%	70-130	1	10/23/22 17:19	10/25/22 02:34	19719-28-9		

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## ANALYTICAL RESULTS

Project: L1548527 Taylor Lumber

Pace Project No.: 35755105

Sample: MW-20S		Lab ID: 35755105012		Collected: 10/13/22 13:45		Received: 10/22/22 11:59		Matrix: Water	
Parameters		Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
515.3 Chlorinated Herbicides		Analytical Method: EPA 515.3 Preparation Method: EPA 515.3 Pace Analytical Services - Ormond Beach							
Pentachlorophenol	ND	ug/L	0.040	1	10/23/22 17:30	10/25/22 13:55	87-86-5		
Surrogates									
2,4-DCAA (S)	94	%	70-130	1	10/23/22 17:30	10/25/22 13:55	19719-28-9		

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## ANALYTICAL RESULTS

Project: L1548527 Taylor Lumber

Pace Project No.: 35755105

Sample: MW-101ST		Lab ID: 35755105013		Collected: 10/14/22 11:53		Received: 10/22/22 11:59		Matrix: Water	
Parameters		Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
515.3 Chlorinated Herbicides		Analytical Method: EPA 515.3 Preparation Method: EPA 515.3 Pace Analytical Services - Ormond Beach							
Pentachlorophenol	97.0	ug/L	20.0	500	10/26/22 10:26	10/28/22 08:41	87-86-5		
Surrogates									
2,4-DCAA (S)	109	%	70-130	1	10/26/22 10:26	10/27/22 10:27	19719-28-9		

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## ANALYTICAL RESULTS

Project: L1548527 Taylor Lumber

Pace Project No.: 35755105

Sample: MW-101SB		Lab ID: 35755105014		Collected: 10/14/22 11:47		Received: 10/22/22 11:59		Matrix: Water	
Parameters		Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
515.3 Chlorinated Herbicides		Analytical Method: EPA 515.3 Preparation Method: EPA 515.3 Pace Analytical Services - Ormond Beach							
Pentachlorophenol	118	ug/L	20.0	500	10/26/22 10:26	10/28/22 09:09	87-86-5		
Surrogates									
2,4-DCAA (S)	116	%	70-130	1	10/26/22 10:26	10/27/22 10:55	19719-28-9		

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## ANALYTICAL RESULTS

Project: L1548527 Taylor Lumber

Pace Project No.: 35755105

Sample: MW-102S		Lab ID: 35755105015		Collected: 10/13/22 15:30		Received: 10/22/22 11:59		Matrix: Water	
Parameters		Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
515.3 Chlorinated Herbicides		Analytical Method: EPA 515.3 Preparation Method: EPA 515.3 Pace Analytical Services - Ormond Beach							
Pentachlorophenol	ND	ug/L	0.040	1	10/23/22 17:30	10/25/22 14:25	87-86-5		
Surrogates									
2,4-DCAA (S)	99	%	70-130	1	10/23/22 17:30	10/25/22 14:25	19719-28-9		

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## ANALYTICAL RESULTS

Project: L1548527 Taylor Lumber

Pace Project No.: 35755105

Sample: MW-103S		Lab ID: 35755105016		Collected: 10/13/22 12:26		Received: 10/22/22 11:59		Matrix: Water	
Parameters		Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
515.3 Chlorinated Herbicides		Analytical Method: EPA 515.3 Preparation Method: EPA 515.3 Pace Analytical Services - Ormond Beach							
Pentachlorophenol	0.36	ug/L	0.040	1	10/23/22 17:30	10/25/22 14:55	87-86-5	CM	
Surrogates									
2,4-DCAA (S)	92	%	70-130	1	10/23/22 17:30	10/25/22 14:55	19719-28-9		

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## ANALYTICAL RESULTS

Project: L1548527 Taylor Lumber

Pace Project No.: 35755105

Sample: MW-104ST		Lab ID: 35755105017		Collected: 10/13/22 16:44		Received: 10/22/22 11:59		Matrix: Water	
Parameters		Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
515.3 Chlorinated Herbicides		Analytical Method: EPA 515.3 Preparation Method: EPA 515.3 Pace Analytical Services - Ormond Beach							
Pentachlorophenol	ND	ug/L	0.40	10	10/23/22 17:30	10/26/22 02:47	87-86-5	D3	
Surrogates									
2,4-DCAA (S)	94	%	70-130	1	10/23/22 17:30	10/25/22 15:24	19719-28-9		

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## ANALYTICAL RESULTS

Project: L1548527 Taylor Lumber

Pace Project No.: 35755105

Sample: MW-104SB		Lab ID: 35755105018		Collected: 10/13/22 16:37		Received: 10/22/22 11:59		Matrix: Water	
Parameters		Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
515.3 Chlorinated Herbicides		Analytical Method: EPA 515.3 Preparation Method: EPA 515.3 Pace Analytical Services - Ormond Beach							
Pentachlorophenol	ND	ug/L	0.80	20	10/23/22 17:30	10/26/22 03:16	87-86-5	D3	
Surrogates									
2,4-DCAA (S)	87	%	70-130	1	10/23/22 17:30	10/25/22 15:54	19719-28-9		

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## ANALYTICAL RESULTS

Project: L1548527 Taylor Lumber

Pace Project No.: 35755105

Sample: MW-9S		Lab ID: 35755105019		Collected: 10/14/22 09:30		Received: 10/22/22 11:59		Matrix: Water	
Parameters		Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
515.3 Chlorinated Herbicides		Analytical Method: EPA 515.3 Preparation Method: EPA 515.3 Pace Analytical Services - Ormond Beach							
Pentachlorophenol	0.069	ug/L	0.040	1	10/26/22 10:26	10/27/22 11:23	87-86-5		
Surrogates									
2,4-DCAA (S)	99	%	70-130	1	10/26/22 10:26	10/27/22 11:23	19719-28-9		

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## ANALYTICAL RESULTS

Project: L1548527 Taylor Lumber

Pace Project No.: 35755105

Sample: MW-10S		Lab ID: 35755105020		Collected: 10/14/22 11:25		Received: 10/22/22 11:59		Matrix: Water	
Parameters		Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
515.3 Chlorinated Herbicides		Analytical Method: EPA 515.3 Preparation Method: EPA 515.3							
		Pace Analytical Services - Ormond Beach							
Pentachlorophenol		0.16	ug/L	0.040	1	10/26/22 10:26	10/27/22 11:51	87-86-5	
Surrogates									
2,4-DCAA (S)		91	%	70-130	1	10/26/22 10:26	10/27/22 11:51	19719-28-9	

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## ANALYTICAL RESULTS

Project: L1548527 Taylor Lumber

Pace Project No.: 35755105

Sample: MW-24S		Lab ID: 35755105021		Collected: 10/14/22 10:20		Received: 10/22/22 11:59		Matrix: Water	
Parameters		Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
515.3 Chlorinated Herbicides		Analytical Method: EPA 515.3 Preparation Method: EPA 515.3 Pace Analytical Services - Ormond Beach							
Pentachlorophenol	ND	ug/L	0.040	1	10/26/22 10:26	10/27/22 12:46	87-86-5		
Surrogates									
2,4-DCAA (S)	98	%	70-130	1	10/26/22 10:26	10/27/22 12:46	19719-28-9		

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## ANALYTICAL RESULTS

Project: L1548527 Taylor Lumber

Pace Project No.: 35755105

Sample: MW-11S		Lab ID: 35755105022		Collected: 10/14/22 12:30		Received: 10/22/22 11:59		Matrix: Water	
Parameters		Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
515.3 Chlorinated Herbicides		Analytical Method: EPA 515.3 Preparation Method: EPA 515.3 Pace Analytical Services - Ormond Beach							
Pentachlorophenol	ND	ug/L	0.040	1	10/26/22 10:26	10/27/22 13:14	87-86-5		
Surrogates									
2,4-DCAA (S)	103	%	70-130	1	10/26/22 10:26	10/27/22 13:14	19719-28-9		

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: L1548527 Taylor Lumber

Pace Project No.: 35755105

Sample: PZ-101		Lab ID: 35755105023		Collected: 10/14/22 14:09		Received: 10/22/22 11:59		Matrix: Water	
Parameters		Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
515.3 Chlorinated Herbicides		Analytical Method: EPA 515.3 Preparation Method: EPA 515.3 Pace Analytical Services - Ormond Beach							
Pentachlorophenol	ND	ug/L	0.040	1	10/26/22 10:26	10/27/22 13:42	87-86-5		
Surrogates									
2,4-DCAA (S)	92	%	70-130	1	10/26/22 10:26	10/27/22 13:42	19719-28-9		

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: L1548527 Taylor Lumber

Pace Project No.: 35755105

<b>Sample: PZ-116</b>		<b>Lab ID: 35755105024</b>	Collected: 10/14/22 16:02	Received: 10/22/22 11:59	Matrix: Water			
Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
<b>515.3 Chlorinated Herbicides</b>		Analytical Method: EPA 515.3 Preparation Method: EPA 515.3 Pace Analytical Services - Ormond Beach						
Pentachlorophenol	<b>0.048</b>	ug/L	0.040	1	10/26/22 10:26	10/27/22 14:10	87-86-5	
<b>Surrogates</b>								
2,4-DCAA (S)	103	%	70-130	1	10/26/22 10:26	10/27/22 14:10	19719-28-9	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: L1548527 Taylor Lumber

Pace Project No.: 35755105

Sample: RW-01		Lab ID: 35755105025		Collected: 10/14/22 17:14		Received: 10/22/22 11:59		Matrix: Water	
Parameters		Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
515.3 Chlorinated Herbicides		Analytical Method: EPA 515.3 Preparation Method: EPA 515.3 Pace Analytical Services - Ormond Beach							
Pentachlorophenol	ND	ug/L	0.040	1	10/26/22 10:26	10/27/22 14:38	87-86-5		
Surrogates									
2,4-DCAA (S)	101	%	70-130	1	10/26/22 10:26	10/27/22 14:38	19719-28-9		

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: L1548527 Taylor Lumber

Pace Project No.: 35755105

Sample: PZ-102		Lab ID: 35755105026		Collected: 10/13/22 10:17		Received: 10/22/22 11:59		Matrix: Water	
Parameters		Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
515.3 Chlorinated Herbicides		Analytical Method: EPA 515.3 Preparation Method: EPA 515.3 Pace Analytical Services - Ormond Beach							
Pentachlorophenol	ND	ug/L	0.040	1	10/23/22 17:30	10/25/22 16:24	87-86-5		
Surrogates									
2,4-DCAA (S)	99	%	70-130	1	10/23/22 17:30	10/25/22 16:24	19719-28-9		

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: L1548527 Taylor Lumber

Pace Project No.: 35755105

Sample: PZ-105		Lab ID: 35755105027		Collected: 10/13/22 11:06		Received: 10/22/22 11:59		Matrix: Water	
Parameters		Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
515.3 Chlorinated Herbicides		Analytical Method: EPA 515.3 Preparation Method: EPA 515.3 Pace Analytical Services - Ormond Beach							
Pentachlorophenol	0.37	ug/L	0.040	1	10/23/22 17:30	10/25/22 17:23	87-86-5		
Surrogates									
2,4-DCAA (S)	98	%	70-130	1	10/23/22 17:30	10/25/22 17:23	19719-28-9		

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: L1548527 Taylor Lumber

Pace Project No.: 35755105

Sample: DUP-1		Lab ID: 35755105028		Collected: 10/14/22 11:29		Received: 10/22/22 11:59		Matrix: Water	
Parameters		Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
515.3 Chlorinated Herbicides		Analytical Method: EPA 515.3 Preparation Method: EPA 515.3 Pace Analytical Services - Ormond Beach							
Pentachlorophenol	ND	ug/L	0.040	1	10/26/22 10:26	10/27/22 15:05	87-86-5		
Surrogates									
2,4-DCAA (S)	99	%	70-130	1	10/26/22 10:26	10/27/22 15:05	19719-28-9		

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: L1548527 Taylor Lumber

Pace Project No.: 35755105

<b>Sample: DUP-2</b>		<b>Lab ID: 35755105029</b>	Collected: 10/14/22 15:34	Received: 10/22/22 11:59	Matrix: Water			
Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
<b>515.3 Chlorinated Herbicides</b>		Analytical Method: EPA 515.3 Preparation Method: EPA 515.3 Pace Analytical Services - Ormond Beach						
Pentachlorophenol	<b>0.063</b>	ug/L	0.040	1	10/26/22 10:26	10/27/22 15:33	87-86-5	
<b>Surrogates</b>								
2,4-DCAA (S)	99	%	70-130	1	10/26/22 10:26	10/27/22 15:33	19719-28-9	

## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: L1548527 Taylor Lumber

Pace Project No.: 35755105

QC Batch:	865994	Analysis Method:	EPA 515.3
QC Batch Method:	EPA 515.3	Analysis Description:	5153 GCS Herbicides
		Laboratory:	Pace Analytical Services - Ormond Beach
Associated Lab Samples: 35755105001, 35755105002, 35755105003, 35755105006, 35755105010, 35755105011			

METHOD BLANK:	4765546	Matrix:	Water
Associated Lab Samples: 35755105001, 35755105002, 35755105003, 35755105006, 35755105010, 35755105011			

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Pentachlorophenol	ug/L	ND	0.040	10/24/22 20:39	
2,4-DCAA (S)	%	91	70-130	10/24/22 20:39	

LABORATORY CONTROL SAMPLE: 4765547

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Pentachlorophenol	ug/L	0.16	0.15	95	70-130	
2,4-DCAA (S)	%			90	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4765550 4765551

Parameter	Units	35755105001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Pentachlorophenol	ug/L	0.34	0.16	0.16	0.46	0.43	74	57	70-130	6	E,M1
2,4-DCAA (S)	%						95	93	70-130		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4765552 4765553

Parameter	Units	35754047001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Pentachlorophenol	ug/L	0.014U	0.16	0.16	0.17	0.16	105	100	70-130	5	
2,4-DCAA (S)	%						94	94	70-130		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: L1548527 Taylor Lumber  
Pace Project No.: 35755105

QC Batch:	865995	Analysis Method:	EPA 515.3
QC Batch Method:	EPA 515.3	Analysis Description:	5153 GCS Herbicides
		Laboratory:	Pace Analytical Services - Ormond Beach
Associated Lab Samples:	35755105007, 35755105012, 35755105015, 35755105016, 35755105017, 35755105018, 35755105026, 35755105027		

METHOD BLANK: 4765548 Matrix: Water  
Associated Lab Samples: 35755105007, 35755105012, 35755105015, 35755105016, 35755105017, 35755105018, 35755105026, 35755105027

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Pentachlorophenol	ug/L	ND	0.040	10/25/22 10:57	
2,4-DCAA (S)	%	90	70-130	10/25/22 10:57	

LABORATORY CONTROL SAMPLE: 4765549

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Pentachlorophenol	ug/L	0.16	0.16	101	70-130	
2,4-DCAA (S)	%			90	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4765554 4765555

Parameter	Units	35754031001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Pentachlorophenol	ug/L	<0.0000 14 mg/L	0.16	0.16	0.16	0.16	98	99	70-130	1	
2,4-DCAA (S)	%						91	90	70-130		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4765556 4765557

Parameter	Units	35754598001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Pentachlorophenol	ug/L	0.014U	0.16	0.16	0.15	0.15	94	93	70-130	1	
2,4-DCAA (S)	%						90	89	70-130		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: L1548527 Taylor Lumber

Pace Project No.: 35755105

QC Batch:	866692	Analysis Method:	EPA 515.3
QC Batch Method:	EPA 515.3	Analysis Description:	5153 GCS Herbicides
		Laboratory:	Pace Analytical Services - Ormond Beach
Associated Lab Samples:	35755105004, 35755105005, 35755105008, 35755105009, 35755105013, 35755105014, 35755105019, 35755105020, 35755105021, 35755105022, 35755105023, 35755105024, 35755105025, 35755105028, 35755105029		

METHOD BLANK: 4768724

Matrix: Water

Associated Lab Samples: 35755105004, 35755105005, 35755105008, 35755105009, 35755105013, 35755105014, 35755105019, 35755105020, 35755105021, 35755105022, 35755105023, 35755105024, 35755105025, 35755105028, 35755105029

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Pentachlorophenol	ug/L	ND	0.040	10/27/22 05:49	
2,4-DCAA (S)	%	96	70-130	10/27/22 05:49	

LABORATORY CONTROL SAMPLE: 4768725

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Pentachlorophenol	ug/L	0.16	0.18	111	70-130	
2,4-DCAA (S)	%			96	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4768726 4768727

Parameter	Units	35753439001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Pentachlorophenol	ug/L	<0.014	0.16	0.16	0.18	0.18	111	111	70-130	0	
2,4-DCAA (S)	%						96	94	70-130		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4768728 4768729

Parameter	Units	35753978001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Pentachlorophenol	ug/L	0.014U	0.16	0.16	0.12	0.11	76	67	70-130	13 M1	
2,4-DCAA (S)	%						88	86	70-130		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

## REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: L1548527 Taylor Lumber

Pace Project No.: 35755105

---

### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

### ANALYTE QUALIFIERS

CM Results reported from secondary column due to matrix interference on the primary column.

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

E Analyte concentration exceeded the calibration range. The reported result is estimated.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: L1548527 Taylor Lumber

Pace Project No.: 35755105

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35755105001	MW-6S	EPA 515.3	865994	EPA 515.3	866018
35755105002	MW-6DB	EPA 515.3	865994	EPA 515.3	866018
35755105003	MW-12S	EPA 515.3	865994	EPA 515.3	866018
35755105004	MW-13S	EPA 515.3	866692	EPA 515.3	866969
35755105005	MW-14S	EPA 515.3	866692	EPA 515.3	866969
35755105006	MW-15S	EPA 515.3	865994	EPA 515.3	866018
35755105007	MW-16S	EPA 515.3	865995	EPA 515.3	866019
35755105008	MW-17S	EPA 515.3	866692	EPA 515.3	866969
35755105009	MW-19S	EPA 515.3	866692	EPA 515.3	866969
35755105010	MW-25ST	EPA 515.3	865994	EPA 515.3	866018
35755105011	MW-25SB	EPA 515.3	865994	EPA 515.3	866018
35755105012	MW-20S	EPA 515.3	865995	EPA 515.3	866019
35755105013	MW-101ST	EPA 515.3	866692	EPA 515.3	866969
35755105014	MW-101SB	EPA 515.3	866692	EPA 515.3	866969
35755105015	MW-102S	EPA 515.3	865995	EPA 515.3	866019
35755105016	MW-103S	EPA 515.3	865995	EPA 515.3	866019
35755105017	MW-104ST	EPA 515.3	865995	EPA 515.3	866019
35755105018	MW-104SB	EPA 515.3	865995	EPA 515.3	866019
35755105019	MW-9S	EPA 515.3	866692	EPA 515.3	866969
35755105020	MW-10S	EPA 515.3	866692	EPA 515.3	866969
35755105021	MW-24S	EPA 515.3	866692	EPA 515.3	866969
35755105022	MW-11S	EPA 515.3	866692	EPA 515.3	866969
35755105023	PZ-101	EPA 515.3	866692	EPA 515.3	866969
35755105024	PZ-116	EPA 515.3	866692	EPA 515.3	866969
35755105025	RW-01	EPA 515.3	866692	EPA 515.3	866969
35755105026	PZ-102	EPA 515.3	865995	EPA 515.3	866019
35755105027	PZ-105	EPA 515.3	865995	EPA 515.3	866019
35755105028	DUP-1	EPA 515.3	866692	EPA 515.3	866969
35755105029	DUP-2	EPA 515.3	866692	EPA 515.3	866969

## REPORT OF LABORATORY ANALYSIS

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W0#: 35755105



35755105

## Y / Analytical Request Document

AL DOCUMENT. All relevant fields must be completed accurately.

Page : 1 Of 3

## Section A

Sect.

## Required Client Information:

## Required Project Information:

ation:

Company: Pace Analytical	Report To: Pace Analytical Subout Team	Attention: Paula Richardson
Address: 12065 Lebanon Rd	Copy To:	Company Name:
MT Juliet, TN 37122		Address:
Email: MTJLSuboutTeam@pacelabs.com	Purchase Order #: L1548527	Pace Quote:
Phone: (615) 773-9756 Fax: (615) 758-5859	Project Name: Taylor Lumber	Pace Project Manager: Shelby Sharpe
Requested Due Date: 4-Nov	Project #: ORE002-03090	Pace Profile #: 38076

Regulatory Agency

State / Location

OR

## Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique	MATRIX Drinking Water Water Waste Water Product Soil/Solid Oil Wipe Air Other Tissue	CODE DW WT WW P SL OL WP AR OT TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Y/N	pentachlorophenol 515.3 only																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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ADDITIONAL COMMENTS

RELINQUISHED BY / AFFILIATION

DATE

TIME

ACCEPTED BY / AFFILIATION

DATE

TIME

SAMPLE CONDITIONS

James C Huckaba

21-Oct

9:51

300 Pac

10/21/22

1000

10 y

My

Pace Analytical Batch: WG1946749

Pace Analytical SDGs: L1548527

Location: Ormond Beach, FL 32174

## SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER:

DATE Signed:

TEMP in C

Received on

Ice

(Y/N)

Custody

Sealed

Cooler

(Y/N)

Samples

Intact

(Y/N)

# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 2 Of 3

## Section A

### Required Client Information:

Company: Pace Analytical  
Address: 12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
Email: MTJLSuboutTeam@pacelabs.com  
Phone: (615) 773-9756 Fax (615) 758-5859  
Requested Due Date: 4-Nov

## Section B

### Required Project Information:

Report To: Pace Analytical Subout Team  
Copy To:  
Purchase Order #: L1548527  
Project Name: Taylor Lumber  
Project #: ORE002-03090

## Section C

### Invoice Information:

Attention: Paula Richardson  
Company Name:  
Address:  
Pace Quote:  
Pace Project Manager: Shelby Sharpe  
Pace Profile #: 38076

Regulatory Agency

State / Location

OR

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique	MATRIX Drinking Water Water Waste Water Product Soil/Solid Oil Wipe Air Other Tissue	CODE DW WT WW P SL OL WP AR OT TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Y/N	Analyses Test	pentachlorophenol 515.3 only																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	James C Huckaba	21-Oct	9:51	BBP Pac	10/22/22	1000	0.1
Pace Analytical Batch: WG1946749							
Pace Analytical SDGs: L1548527							
Location: Ormond Beach, FL 32174							

### SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER:

DATE Signed:

TEMP in C

Received on

Ice (Y/N)

Custody

Sealed (Y/N)

Cooler (Y/N)

Samples Intact (Y/N)

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 3 Of 3

## Section B



## Section C

**Required Project Information:**

**Invoice Information:**

Company: Pace Analytical		Report To: Pace Analytical Subout Team		Attention: Paula Richardson		Page : 3 Of 3	
Address: 12065 Lebanon Rd.		Copy To:		Company Name:			
MT. Juliet, TN 37122				Address:		Regulatory Agency	
Email: MTJLSuboutTeam@pacelabs.com		Purchase Order #: L1548527		Pace Quote:			
Phone: (615) 773-9756	Fax: (615) 758-5859	Project Name: Taylor Lumber		Pace Project Manager: Shelby Sharpe		State / Location	
Requested Due Date: 4-Nov		Project #: ORE002-03090		Pace Profile #: 38076		OR	

[illegible]

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	James C Huckaba 	21-Oct	9:51	BUP Pace  10/24/22	10/24/22	1000	2.1 g My
Pace Analytical Batch: WG1946749							
Pace Analytical SDGs: L1548527							
Location: Ormond Beach, FL 32174							

SAMPLER NAME AND SIGNATURE		TEMP in C	Received on ce (Y/N)	Custody Sealed Cooler (Y/N)	Samples contact (Y/N)
PRINT Name of SAMPLER:					
SIGNATURE of SAMPLER:	DATE Signed:				



Pace

Sample Condition Upon Receipt Form (SCUR)  
**WO#: 35755105**

Project #  
Project Manager:  
Client:

PM: SS1 Due Date: 11/04/22  
CLIENT: PACESC

Date and Initials of person:

Examining contents: \_\_\_\_\_  
Label: \_\_\_\_\_  
Deliver: KAS  
pH: \_\_\_\_\_

Thermometer Used: T-394

Date: 10/22/22

Time: 1014

Initials: RJP

State of Origin: \_\_\_\_\_

☐ For WV projects, all containers verified to  $\leq 6^{\circ}\text{C}$

Cooler #1 Temp.  $^{\circ}\text{C}$  1.7 (Visual) 0.0 (Correction Factor) 1.7 (Actual)

☐ Samples on ice, cooling process has begun

Cooler #2 Temp.  $^{\circ}\text{C}$  1.9 (Visual) \_\_\_\_\_ (Correction Factor) 1.9 (Actual)

☐ Samples on ice, cooling process has begun

Cooler #3 Temp.  $^{\circ}\text{C}$  3.4 (Visual) \_\_\_\_\_ (Correction Factor) 3.4 (Actual)

☐ Samples on ice, cooling process has begun

Cooler #4 Temp.  $^{\circ}\text{C}$  1.6 (Visual) \_\_\_\_\_ (Correction Factor) 1.6 (Actual)

☐ Samples on ice, cooling process has begun

Cooler #5 Temp.  $^{\circ}\text{C}$  \_\_\_\_\_ (Visual) \_\_\_\_\_ (Correction Factor) \_\_\_\_\_ (Actual)

☐ Samples on ice, cooling process has begun

Cooler #6 Temp.  $^{\circ}\text{C}$  \_\_\_\_\_ (Visual) \_\_\_\_\_ (Correction Factor) \_\_\_\_\_ (Actual)

☐ Samples on ice, cooling process has begun

Recheck for OOT  $^{\circ}\text{C}$  \_\_\_\_\_ (Visual) \_\_\_\_\_ (Correction Factor) \_\_\_\_\_ (Actual) Time: \_\_\_\_\_ Initials: \_\_\_\_\_

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other \_\_\_\_\_

Shipping Method: ☐ First Overnight ☒ Priority Overnight ☐ Standard Overnight ☐ Ground ☐ International Priority

☐ Other \_\_\_\_\_

Billing: ☐ Recipient ☒ Sender ☐ Third Party ☐ Credit Card ☐ Unknown

Tracking # 6094 5460 7787

Custody Seal on Cooler/Box Present: ☒ Yes ☐ No Seals intact: ☒ Yes ☐ No Ice: Wet Blue Melted None

Packing Material: ☒ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other \_\_\_\_\_

Samples shorted to lab (If Yes, complete) Shorted Date: \_\_\_\_\_ Shorted Time: \_\_\_\_\_ Qty: \_\_\_\_\_

Comments:

Chain of Custody Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Chain of Custody Filled Out	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Relinquished Signature & Sampler Name COC	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Samples Arrived within Hold Time	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Rush TAT requested on COC	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Sufficient Volume	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Correct Containers Used	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Sample Labels match COC (sample IDs & date/time of collection)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
All containers needing acid/base preservation have been checked.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Preservation Information:
All Containers needing preservation are found to be in compliance with EPA recommendation:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Preservative: _____
Exceptions: Vials, Microbiology, O&G, PFAS		Lot #/Trace #: _____
		Date: _____ Time: _____
		Initials: _____
Headspace in VOA Vials? (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

Comments/ Resolution (use back for additional comments):

**Oregon Dept. of Env. Quality - ODEQ**

Sample Delivery Group: L1549834  
Samples Received: 10/24/2022  
Project Number: 1843-00  
Description: Taylor Lumber ORE002-0309032-21002305  
  
Report To: Nancy Sawka

Entire Report Reviewed By:



Brian Ford  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

**Pace Analytical National**12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 [www.pacenational.com](http://www.pacenational.com)

# TABLE OF CONTENTS

Cp: Cover Page	1	<sup>1</sup> Cp
Tc: Table of Contents	2	
Ss: Sample Summary	3	<sup>2</sup> Tc
Cn: Case Narrative	4	<sup>3</sup> Ss
Gl: Glossary of Terms	5	<sup>4</sup> Cn
Al: Accreditations & Locations	6	<sup>5</sup> Gl
Sc: Sample Chain of Custody	7	<sup>6</sup> Al
		<sup>7</sup> Sc

# SAMPLE SUMMARY

## MW-1S L1549834-01 DW

				Collected by	Collected date/time	Received date/time		
					10/21/22 14:30	10/24/22 10:00		
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location		
Subcontracted Analyses	WG1948519	1	11/11/22 00:00	11/11/22 00:00	-	Ormond Beach, FL 32174		

## MW-6DT L1549834-02 DW

				Collected by	Collected date/time	Received date/time		
					10/21/22 13:50	10/24/22 10:00		
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location		
Subcontracted Analyses	WG1948519	1	11/11/22 00:00	11/11/22 00:00	-	Ormond Beach, FL 32174		

1Cp

2Tc

3Ss

4Cn

5Gl

6Al

7Sc

# CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

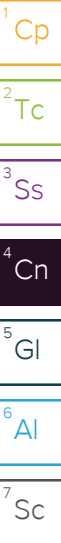


Brian Ford  
Project Manager

## Project Narrative

---

L1549834 -01, -02 contains subout data that is included after the chain of custody.





# GLOSSARY OF TERMS

## Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

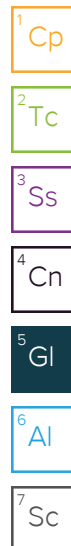
Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

## Abbreviations and Definitions

SDG	Sample Delivery Group.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

## Qualifier Description

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.



# ACCREDITATIONS & LOCATIONS

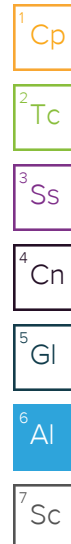
## Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey--NELAP	TN002
California	2932	New Mexico <sup>1</sup>	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	923	North Dakota	R-140
Idaho	TN00003	Ohio--VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky <sup>1,6</sup>	KY90010	South Carolina	84004002
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1,4</sup>	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA -- ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA -- ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA--Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

\* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.



THIS PURCHASE IS SUBMITTED PURSUANT TO STATE OF OREGON SOLICITATION #102-1098-07 AND PRICE AGREEMENT # [8903]. THE PRICE AGREEMENT INCLUDING CONTRACT TERMS AND CONDITIONS AND SPECIAL CONTRACT TERMS AND CONDITIONS (T'S & C'S) CONTAINED IN THE PRICE AGREEMENT ARE HEREBY INCORPORATED BY REFERENCE AND SHALL APPLY TO THIS PURCHASE AND SHALL TAKE PRECEDENCE OVER ALL OTHER CONFLICTING T'S AND C'S, EXPRESS OR IMPLIED. *ASTRO 0.5 MSLAG*

$$0.570 = 0.5 \text{ ms} / 4$$

Version: 4/4/2008

November 11, 2022

Project Manager  
Pace National  
12065 Lebanon Rd  
Mt. Juliet, TN 37122

RE: Project: Taylor Lumber L1549834  
Pace Project No.: 35755602

Dear Project Manager:

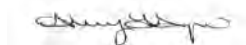
Enclosed are the analytical results for sample(s) received by the laboratory on October 26, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Ormond Beach

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Shelby Sharpe  
shelby.sharpe@pacelabs.com  
(386)672-5668  
Project Manager

Enclosures

cc: Jimmy Huckaba, Pace National



## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, LLC.

## CERTIFICATIONS

Project: Taylor Lumber L1549834

Pace Project No.: 35755602

---

### **Pace Analytical Services Ormond Beach**

8 East Tower Circle, Ormond Beach, FL 32174

Alaska DEC- CS/UST/LUST

Alabama Certification #: 41320

Colorado Certification: FL NELAC Reciprocity

Connecticut Certification #: PH-0216

Delaware Certification: FL NELAC Reciprocity

Florida Certification #: E83079

Georgia Certification #: 955

Guam Certification: FL NELAC Reciprocity

Hawaii Certification: FL NELAC Reciprocity

Illinois Certification #: 200068

Indiana Certification: FL NELAC Reciprocity

Kansas Certification #: E-10383

Kentucky Certification #: 90050

Louisiana Certification #: FL NELAC Reciprocity

Louisiana Environmental Certificate #: 05007

Maine Certification #: FL01264

Maryland Certification: #346

Massachusetts Certification #: M-FL1264

Michigan Certification #: 9911

Mississippi Certification: FL NELAC Reciprocity

Missouri Certification #: 236

Montana Certification #: Cert 0074

Nebraska Certification: NE-OS-28-14

New Hampshire Certification #: 2958

New Jersey Certification #: FL022

New York Certification #: 11608

North Carolina Environmental Certificate #: 667

North Carolina Certification #: 12710

North Dakota Certification #: R-216

Ohio DEP 87780

Oklahoma Certification #: D9947

Pennsylvania Certification #: 68-00547

Puerto Rico Certification #: FL01264

South Carolina Certification: #96042001

Tennessee Certification #: TN02974

Texas Certification: FL NELAC Reciprocity

US Virgin Islands Certification: FL NELAC Reciprocity

Virginia Environmental Certification #: 460165

West Virginia Certification #: 9962C

Wisconsin Certification #: 399079670

Wyoming (EPA Region 8): FL NELAC Reciprocity

---

## REPORT OF LABORATORY ANALYSIS

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## SAMPLE ANALYTE COUNT

Project: Taylor Lumber L1549834

Pace Project No.: 35755602

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35755602001	MW-1S	EPA 515.3	SCL	2	PASI-O
35755602002	MW-6DT	EPA 515.3	SCL	2	PASI-O

PASI-O = Pace Analytical Services - Ormond Beach

## REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, LLC.

## ANALYTICAL RESULTS

Project: Taylor Lumber L1549834

Pace Project No.: 35755602

Sample: MW-1S		Lab ID: 35755602001		Collected: 10/21/22 14:30		Received: 10/26/22 10:40		Matrix: Water	
Parameters		Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
515.3 Chlorinated Herbicides		Analytical Method: EPA 515.3 Preparation Method: EPA 515.3 Pace Analytical Services - Ormond Beach							
Pentachlorophenol	0.70	ug/L	0.40	10	11/03/22 11:31	11/05/22 15:00	87-86-5		
Surrogates									
2,4-DCAA (S)	131	%	70-130	1	11/03/22 11:31	11/05/22 06:35	19719-28-9	S1	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Taylor Lumber L1549834

Pace Project No.: 35755602

Sample: MW-6DT		Lab ID: 35755602002		Collected: 10/21/22 13:50		Received: 10/26/22 10:40		Matrix: Water	
Parameters		Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
515.3 Chlorinated Herbicides		Analytical Method: EPA 515.3 Preparation Method: EPA 515.3 Pace Analytical Services - Ormond Beach							
Pentachlorophenol	ND	ug/L	0.040	1	11/03/22 11:31	11/04/22 06:58	87-86-5		
Surrogates									
2,4-DCAA (S)	125	%	70-130	1	11/03/22 11:31	11/04/22 06:58	19719-28-9		

## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: Taylor Lumber L1549834

Pace Project No.: 35755602

QC Batch:	868956	Analysis Method:	EPA 515.3
QC Batch Method:	EPA 515.3	Analysis Description:	5153 GCS Herbicides
		Laboratory:	Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35755602001, 35755602002

METHOD BLANK: 4780859 Matrix: Water

Associated Lab Samples: 35755602001, 35755602002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Pentachlorophenol	ug/L	ND	0.040	11/04/22 04:12	
2,4-DCAA (S)	%	120	70-130	11/04/22 04:12	

LABORATORY CONTROL SAMPLE: 4780860

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Pentachlorophenol	ug/L	0.16	0.19	121	70-130	
2,4-DCAA (S)	%			119	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4780861 4780862

Parameter	Units	35755461001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Pentachlorophenol	ug/L	0.014U	0.16	0.16	0.18	0.20	112	123	70-130	9	
2,4-DCAA (S)	%						110	118	70-130		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4780863 4780864

Parameter	Units	35755885002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Pentachlorophenol	ug/L	<0.014	0.16	0.16	0.18	0.17	110	107	70-130	3	
2,4-DCAA (S)	%						114	112	70-130		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

## REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: Taylor Lumber L1549834

Pace Project No.: 35755602

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

### ANALYTE QUALIFIERS

S1 Surrogate recovery outside laboratory control limits (confirmed by re-analysis).

## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Taylor Lumber L1549834

Pace Project No.: 35755602

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35755602001	MW-1S	EPA 515.3	868956	EPA 515.3	869197
35755602002	MW-6DT	EPA 515.3	868956	EPA 515.3	869197

## REPORT OF LABORATORY ANALYSIS

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**35755602**

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

OR

SAMPLER NAME AND SIGNATURE		TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:					
SIGNATURE of SAMPLER:	DATE Signed:				

Sample Condition Upon Receipt Form (SCUR)

WO#: 35755602

Project #  
Project Manager:  
Client:

PM: SS1 Due Date: 11/16/22  
CLIENT: PACESC

Date and Initials of person:

Examining contents:

Label:

Deliver:

pH:

Thermometer Used:

Date:

Time:

Initials:

State of Origin:

☐ For WV projects, all containers verified to  $\leq 6^{\circ}\text{C}$

Cooler #1 Temp.  $^{\circ}\text{C}$  3.4 (Visual) 0 (Correction Factor) 3.4 (Actual)

Cooler #2 Temp.  $^{\circ}\text{C}$  (Visual) (Correction Factor) (Actual)

Cooler #3 Temp.  $^{\circ}\text{C}$  (Visual) (Correction Factor) (Actual)

Cooler #4 Temp.  $^{\circ}\text{C}$  (Visual) (Correction Factor) (Actual)

Cooler #5 Temp.  $^{\circ}\text{C}$  (Visual) (Correction Factor) (Actual)

Cooler #6 Temp.  $^{\circ}\text{C}$  (Visual) (Correction Factor) (Actual)

Recheck for OOT  $^{\circ}\text{C}$  (Visual) (Correction Factor) (Actual) Time: Initials:

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other

Shipping Method: ☐ First Overnight ☒ Priority Overnight ☐ Standard Overnight ☐ Ground ☐ International Priority

☐ Other

Billing: ☐ Recipient ☐ Sender ☐ Third Party ☐ Credit Card ☐ Unknown

Tracking # 1094 5461 5130

Custody Seal on Cooler/Box Present: ☐ Yes ☒ No Seals intact: ☐ Yes ☐ No Ice: ☒ Wet ☐ Blue ☐ Melted ☐ None

Packing Material: ☒ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other

Samples shorted to lab (If Yes, complete): Shorted Date: Shorted Time: Qty:

Comments:

Chain of Custody Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	No samples
Chain of Custody Filled Out	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Relinquished Signature & Sampler Name COC	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Samples Arrived within Hold Time	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Rush TAT requested on COC	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Sufficient Volume	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Correct Containers Used	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Sample Labels match COC (sample IDs & date/time of collection)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
All containers needing acid/base preservation have been checked.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
All Containers needing preservation are found to be in compliance with EPA recommendation:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Preservation Information: Preservative: Lot #/Trace #: Date: Time: Initials:
Exceptions: Vials, Microbiology, O&G, PFAS		
Headspace in VOA Vials? (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

Comments/ Resolution (use back for additional comments):